KerrMcGee

Kerr-McGee Oil & Gas OnShore LP
1999 Broadway, Suite 3700, Denver, Colorado 80202
303-296-3600 • Fax 303-296-3601

March 1, 2007

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: State 1021-32O
T10S-R21E
Section 32: SWSE
1008' FSL, 2066' FEL
Uintah County, Utah

Dear Ms. Mason:

Kerr-McGee Oil & Gas Onshore LP, formerly known as Westport Oil and Gas Company, L.P. has submitted a permit to drill the captioned well to test the Wasatch and Mesaverde formations. The well is located at an exception location to State Rule 649-3-2 (State Wide). The well location was moved for topographic reasons. In addition, the well location is less than 920' from the proposed State 1021-32J well which may produce from the same pool. Both wells are located within the same lease and the proximity between wells does not interfere with the correlative rights of the royalty and working interest owners. Kerr-McGee owns 100% of the leasehold in the offset lands.

Kerr-McGee requests your approval of this exception location. If you have any questions, call me at 720-264-2618. Thank you for your assistance.

Sincerely,

W. Chris Latimer, CPL
Senior Landman

cc: Raleen White

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO:	6. SURFACE:
ML-21577	State

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

7. IF INDIAN, ALLOTTEE OR TRIBE NAME:

B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑

8. UNIT or CA AGREEMENT NAME:

2. NAME OF OPERATOR:
KERR McGEE OIL & GAS ONSHORE L.P.

9. WELL NAME and NUMBER:
STATE 1021-32O

3. ADDRESS OF OPERATOR:
1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1008'FSL, 2066'FEL 622019X 39.899459
4417363Y -109.522684
AT PROPOSED PRODUCING ZONE:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSE 32 10S 21E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:
18 MILES SOUTH OF OURAY, UTAH

12. COUNTY:
UINTAH

13. STATE:
UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
1008'	640.00	40.00
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
REFER TO TOPO C	9,030	RLB0005237
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
5322'GL		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	H-40	32.3#	1,700	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	I-80	11.6#	9,030	1920 SX 50/50 POZ	1.31 YIELD	14.3 PPG

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 3/14/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39128

APPROVAL:

Approved by the Utah Division of Oil, Gas and Mining

Date: 06-25-07

By:

RECEIVED
MAR 16 2007
DIV. OF OIL, GAS & MINING

(11/2001) (See Instructions on Reverse Side)

Kerr-McGee Oil & Gas Onshore LP

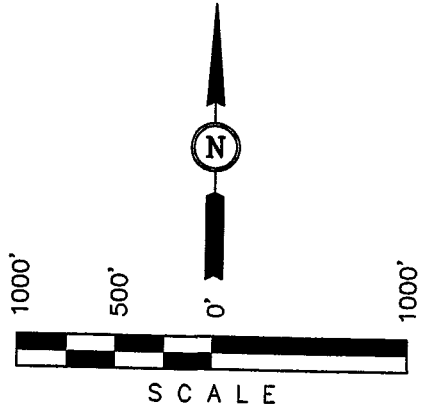
Well location, STATE #1021-320, located as shown in the SW 1/4 SE 1/4 of Section 32, T10S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°53'57.90" (39.899417)
LONGITUDE = 109°34'24.10" (109.573361)
(NAD 27)
LATITUDE = 39°53'58.02" (39.899450)
LONGITUDE = 109°34'21.62" (109.572672)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 12-13-06	DATE DRAWN: 12-18-06
PARTY: L.K. J.M. P.M.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: Kerr-McGee Oil & Gas Onshore LP	

STATE 1021-32O
SW/SE SEC. 32, T10S, R21E
UINTAH COUNTY, UTAH
ML-21577

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	897'
Top of Birds Nest Water	1139'
Mahogany	1662'
Wasatch	4052'
Mesaverde	6888'
MVU2	7895'
MVL1	8409'
TD	9030'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	897'
Water	Top of Birds Nest Water	1139'
	Mahogany	1662'
Gas	Wasatch	4052'
Gas	Mesaverde	6888'
Gas	MVU2	7895'
Gas	MVL1	8409'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9030' TD, approximately equals 5599 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3612 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

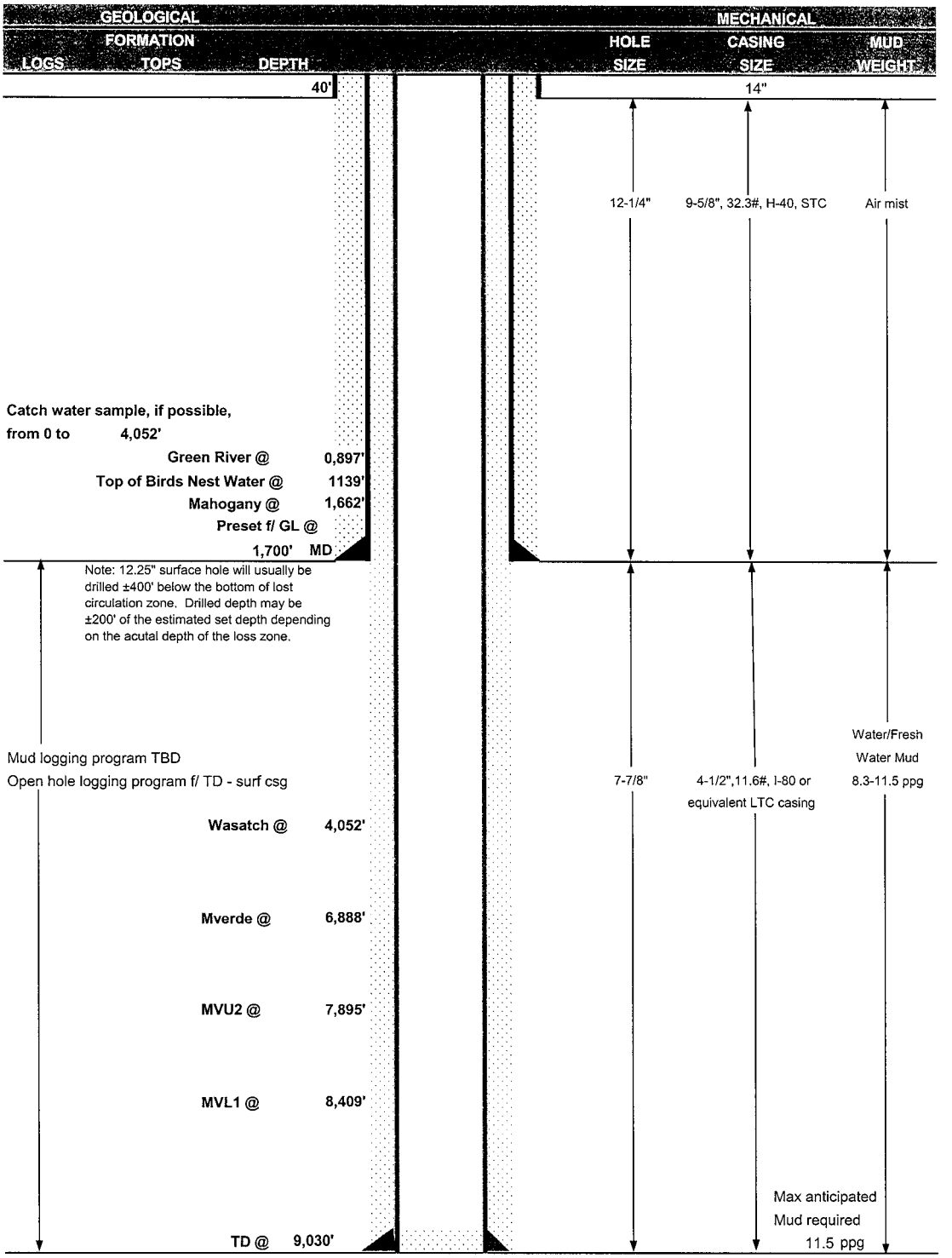
10. **Other Information:**

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	March 14, 2007		
WELL NAME	**STATE 1021-32O**			TD	9,030' MD/TVD		
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION	5,322' GL	KB 5,337'	
SURFACE LOCATION	SW/SE SEC. 32, T10S, R21E 1008'FSL, 2066'FEL					BHL	Straight Hole
	Latitude: 39.899417 Longitude: 109.573361						
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (SURF & MINERALS),Tri-County Health Dept.						



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 1700	32.30	H-40	STC	2270 0.67*******	1370 1.72	254000 5.28
PRODUCTION	4-1/2"	0 to 9030	11.60	I-80	LTC	7780 2.28	6350 1.18	201000 2.20

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3413 psi

********* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS*	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,550'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	390	60%	11.00	3.38
	TAIL	5,480'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1530	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

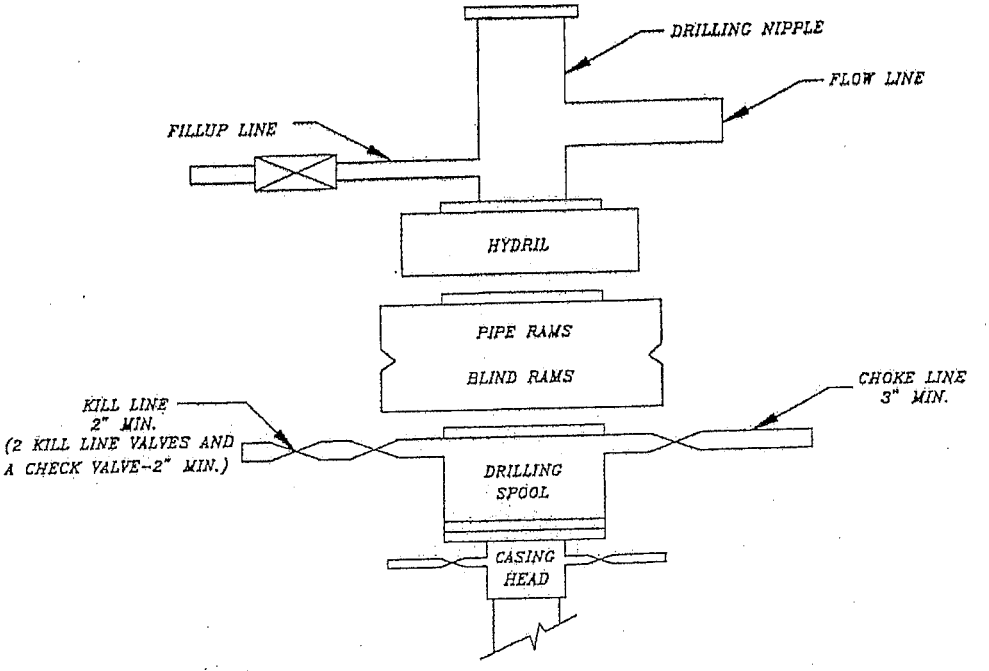
DRILLING ENGINEER: _____ **DATE:** _____

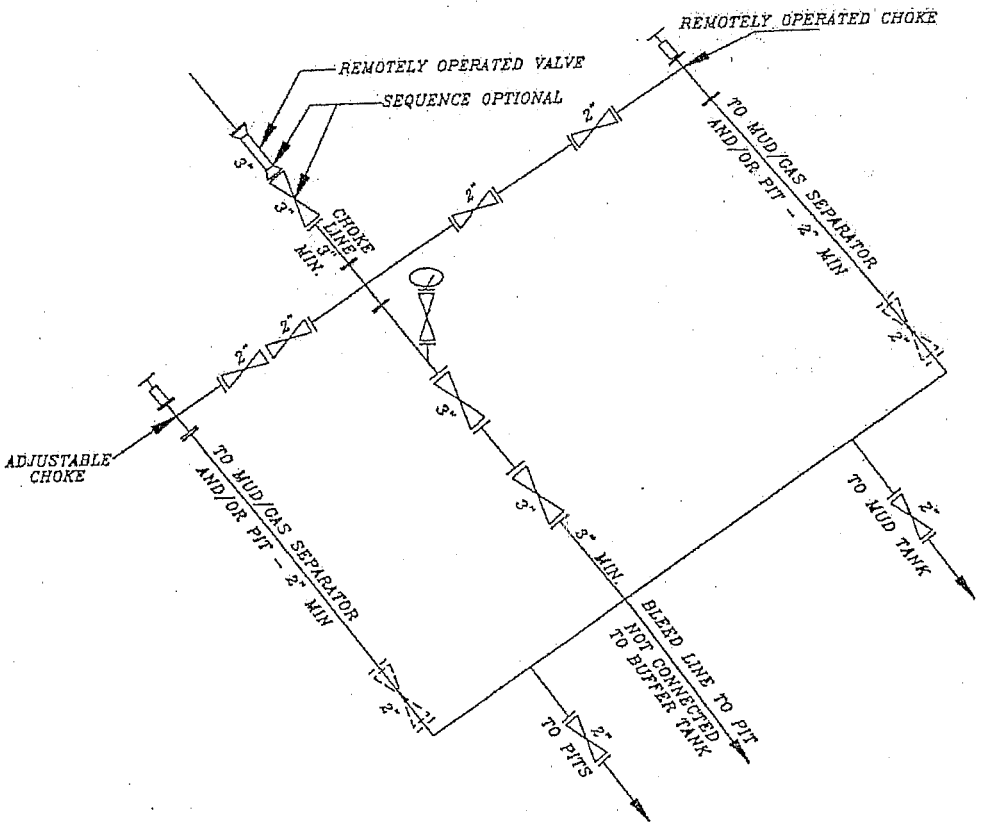
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





STATE 1021-32O
SW/SE SEC. 32, T10S, R21E
Uintah County, UT
ML-21577

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 0.1 +/- miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 431' +/- of 4" steel pipeline is proposed from the location to an tie-in point. Refer to Topo Map D.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment.

Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Sheila Upchego

3/14/2007
Date

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 15.6 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #1021-32N TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED #1021-32N AND THE BEGINNING OF THE PROPOSED ACCESS FOR THE #1021-32H TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #1021-32J TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED #1021-32J AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.0 MILES.

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O

LOCATED IN UINTAH COUNTY, UTAH
SECTION 32, T10S, R21E, S.L.B.&M.

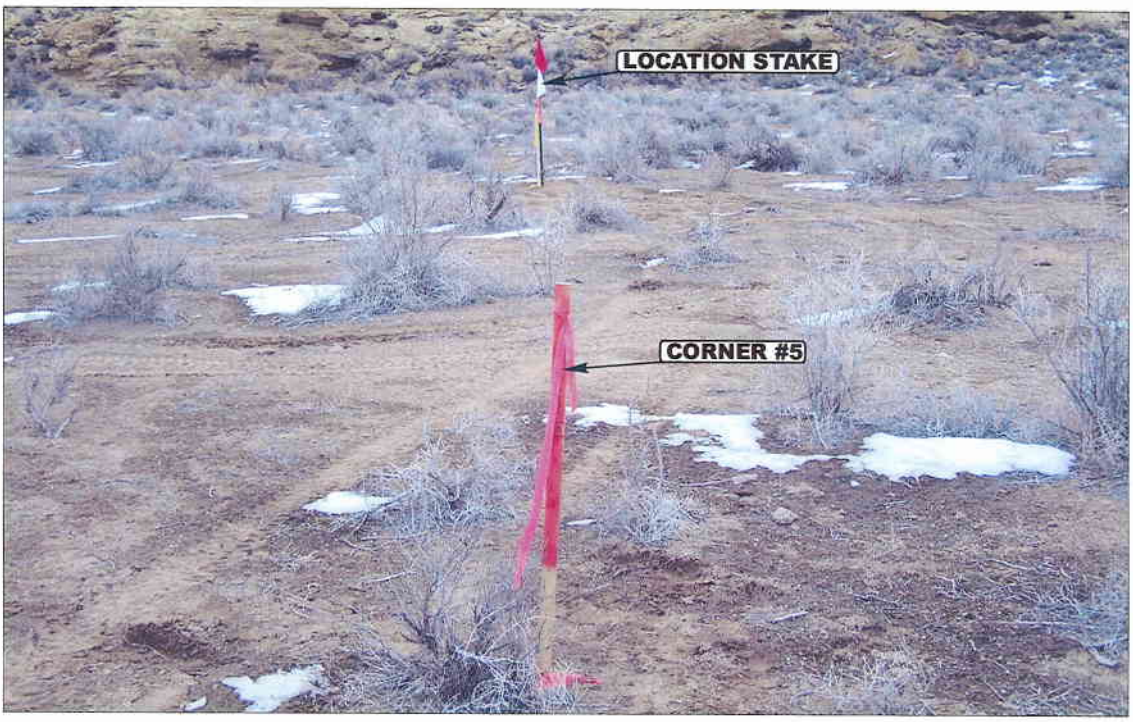
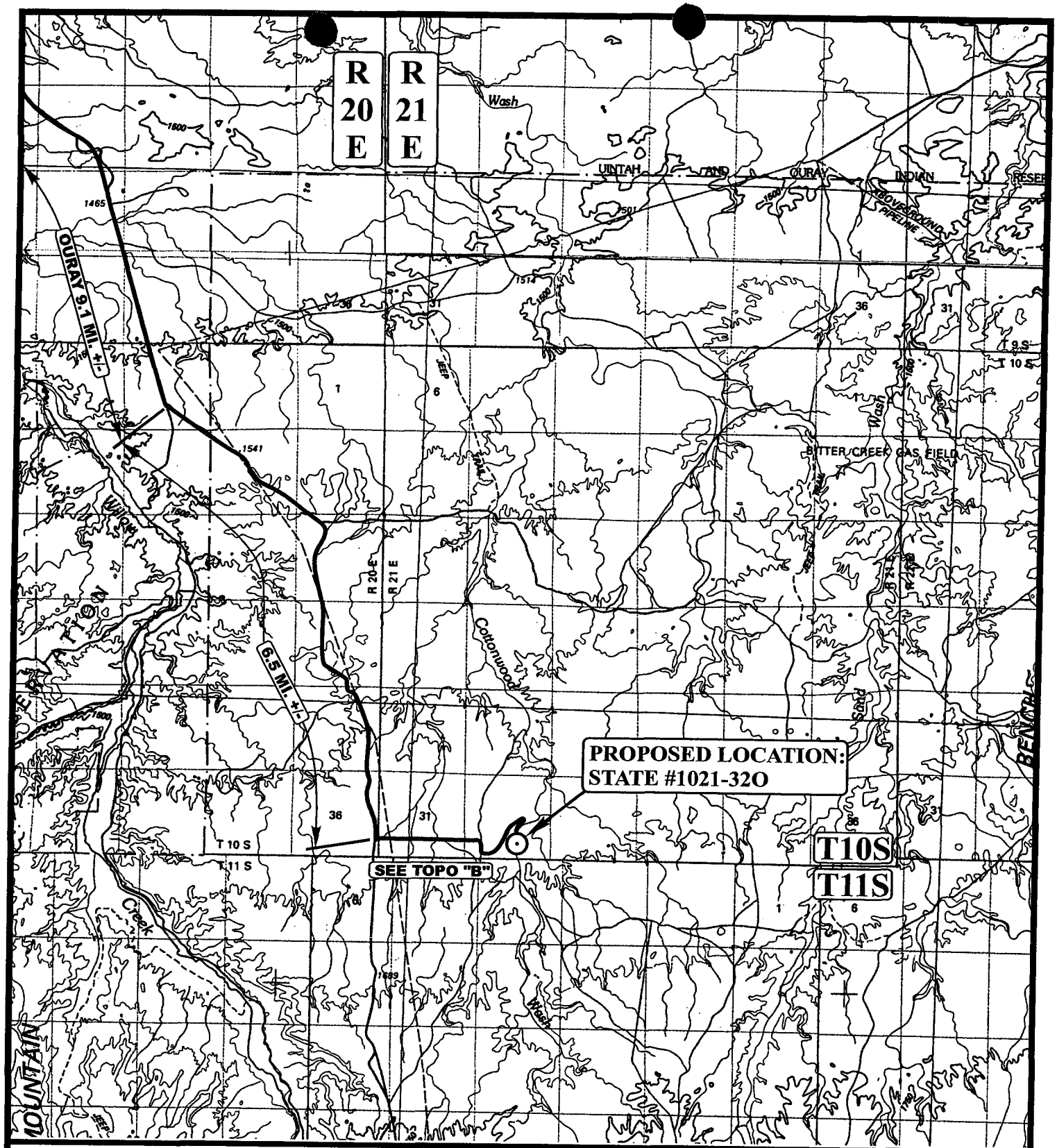


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: EASTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: SOUTHERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	12 MONTH	15 DAY	06 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

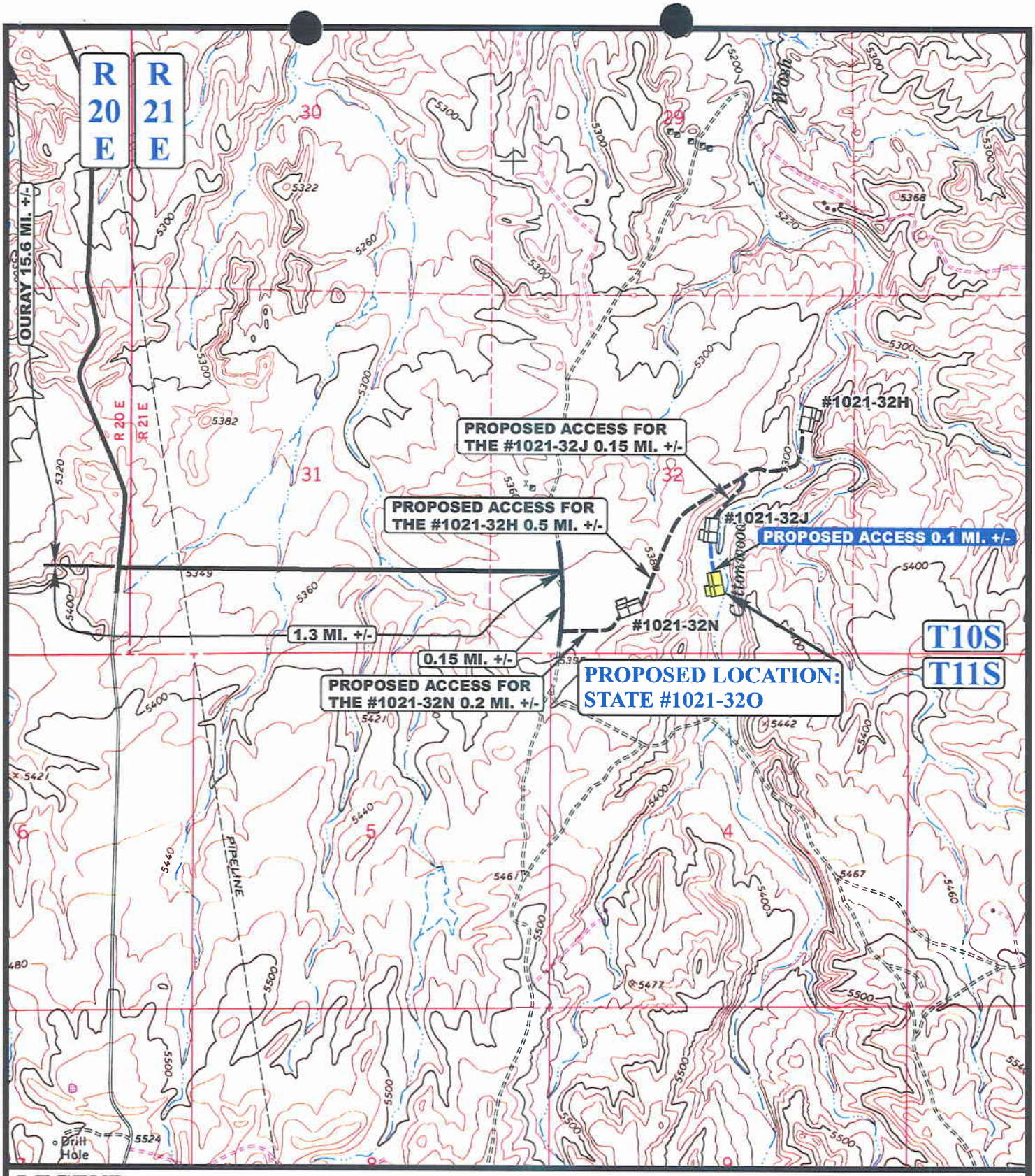
N

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	12 MONTH	15 DAY	06 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

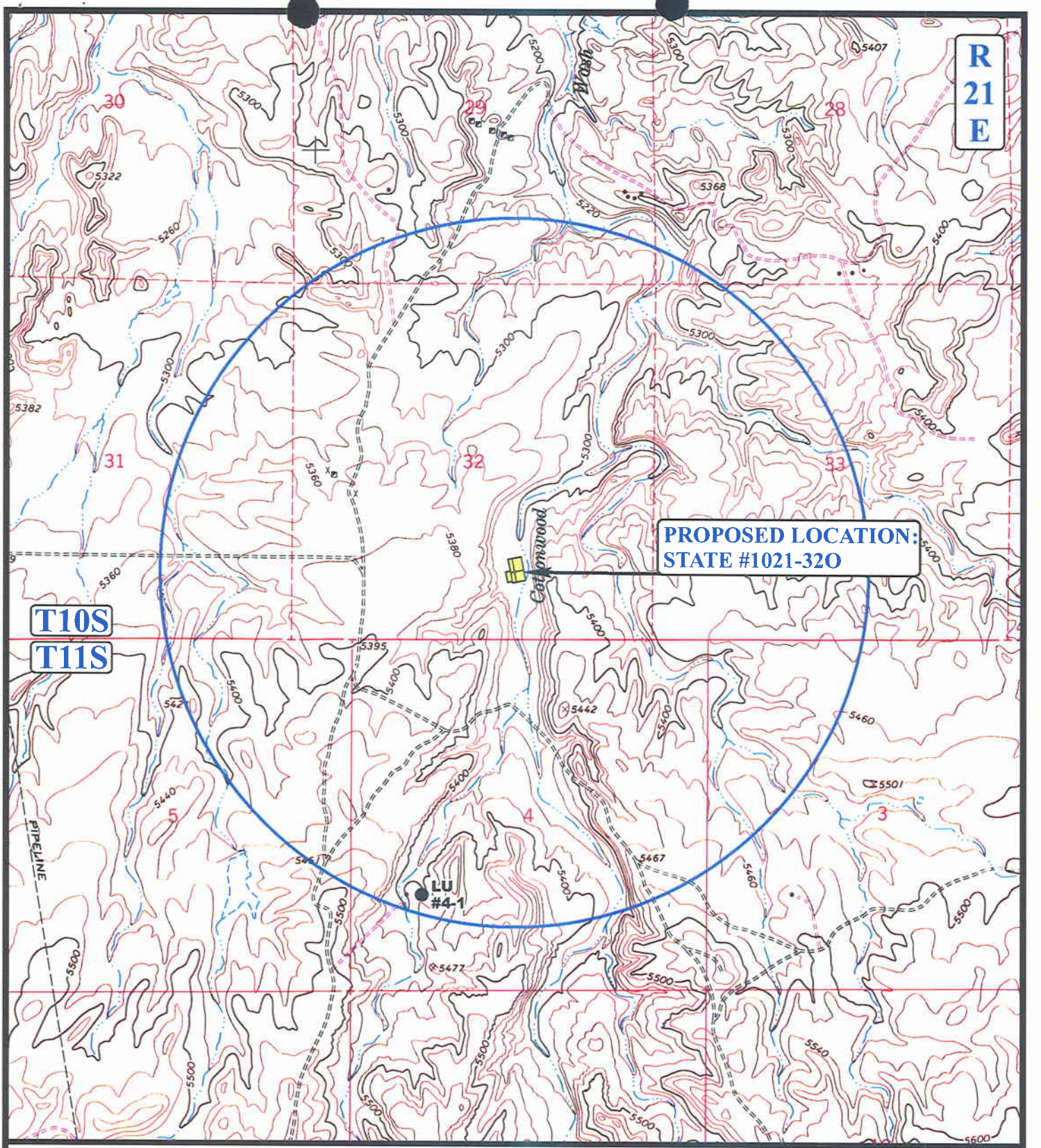
N

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	12 MONTH	15 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

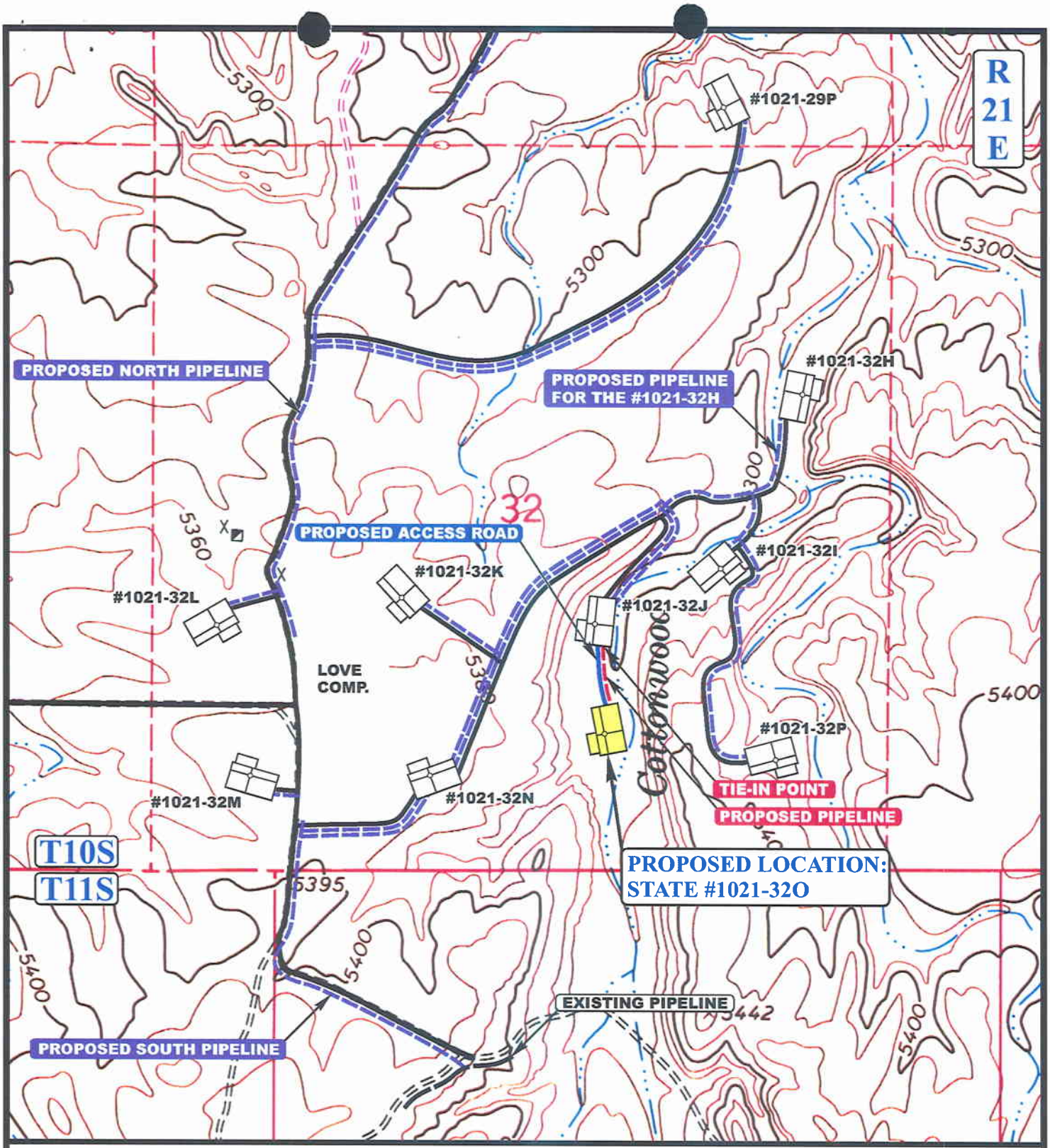
N

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	12 MONTH	15 DAY	06 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 431' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE
(SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	12 MONTH	15 DAY	06 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 32, T10S, R21E, S.L.B.&M.

PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: SOUTHERLY**

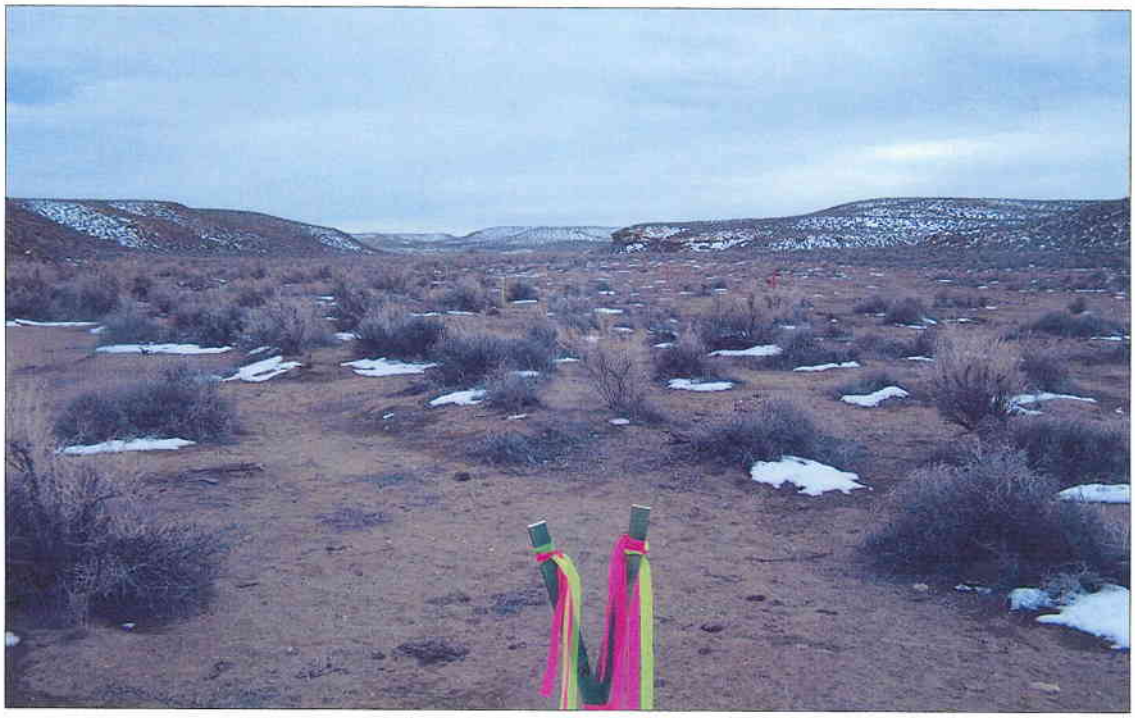


PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: SOUTHERLY**

- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	12 MONTH	15 DAY	06 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

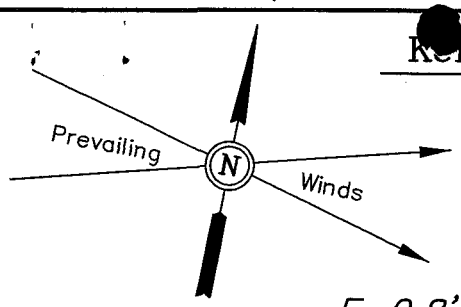
FIGURE #1

LOCATION LAYOUT FOR

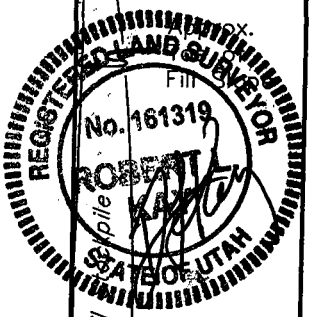
STATE #1021-320

SECTION 32, T10S, R21E, S.L.B.&M.

1008' FSL 2066' FEL



SCALE: 1" = 50'
DATE: 12-18-06
Drawn By: P.M.



Proposed Access Road

Install CMP as Needed

F-0.8'
El. 19.6'

F-1.5'
El. 18.9'

Topsoil Stockpile

Sta. 3+50

58'

F-1.2'
El. 19.2'

200'

CONSTRUCT DIVERSION DITCH

Existing Drainage

Pit Topsoil

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

PIPE TUBS

CATWALK

PIPE RACKS

FLARE PIT

C-2.5'
El. 22.9'

Blooie Line

C-1.9'
El. 22.3'

RIG

135'

Sta. 1+50

El. 23.6'
C-13.2'
(btm. pit)

70'

10'

58'

C-2.7'
El. 23.1'

MUD TANKS

DOG HOUSE

TOILET

C-1.5'
El. 21.9'

TRAILER

LIGHT PLANT

BOILER

COMPRESSOR

BOOSTER

PUMP HOUSE

WATER TANK

RESERVE PITS
(10' Deep)

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

SLOPE 1 1/2 : 1

150'

Total Pit Capacity W/2' of Freeboard = 9,850 Bbls. ±
Total Pit Volume = 2,780 Cu. Yds.

Sta. 0+25

TRASH

Approx. Top of Cut Slope

C-4.8'
El. 25.2'

PROPANE STORAGE

C-3.4'
El. 23.8'

El. 26.3'
C-15.9'
(btm. pit)

15' WIDE BENCH

Sta. 0+00

C-4.9'
El. 25.3'

C-1.4'
El. 21.8'

CONSTRUCT DIVERSION DITCH

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5322.3'

FINISHED GRADE ELEV. AT LOC. STAKE = 5320.4'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

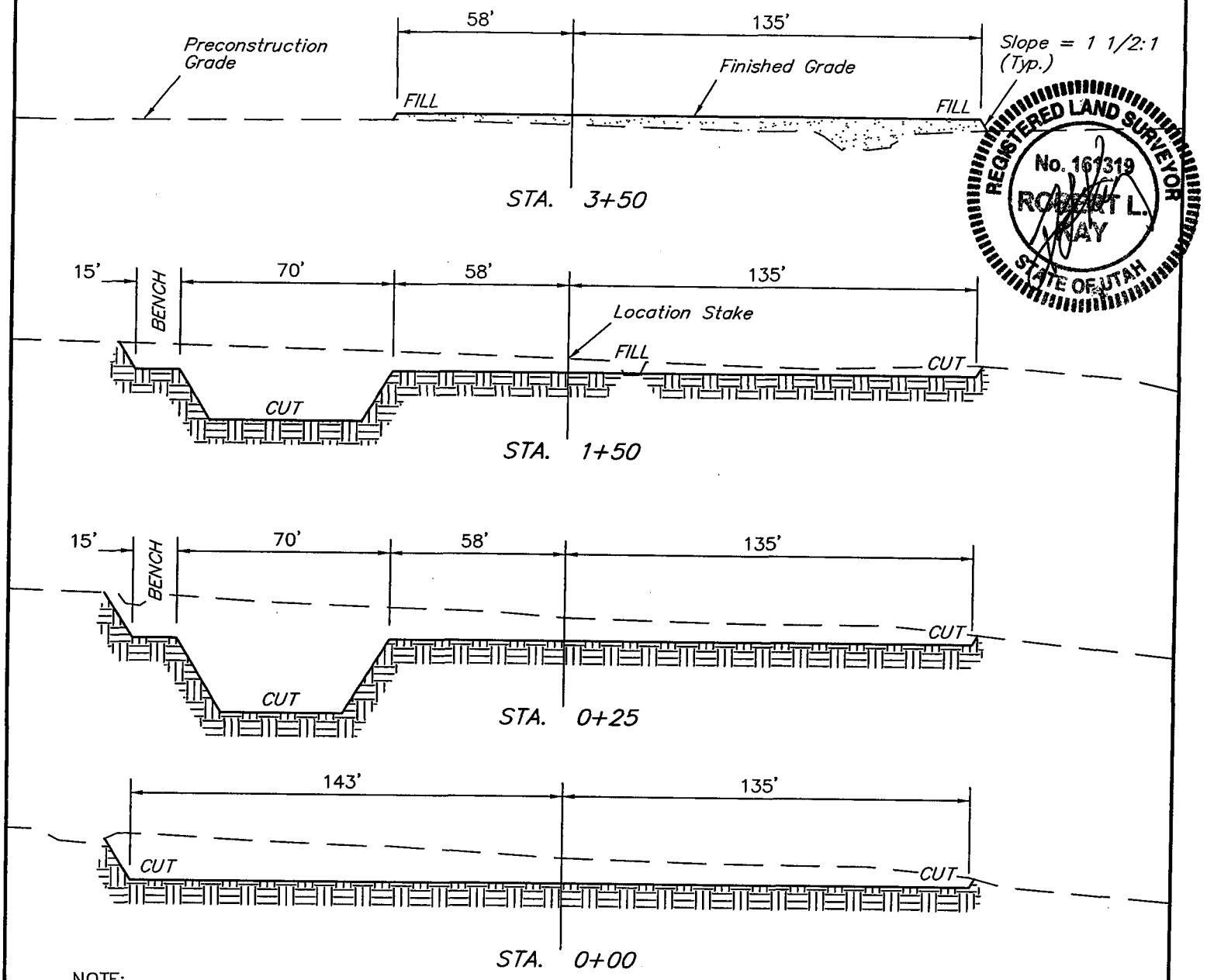
Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR
STATE #1021-320
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

1" = 20'
X-Section Scale
1" = 50'

DATE: 12-18-06
Drawn By: P.M.



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,650 Cu. Yds.
Remaining Location = 7,290 Cu. Yds.

TOTAL CUT = 8,940 CU.YDS.
FILL = 1,390 CU.YDS.

EXCESS MATERIAL = 7,550 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,040 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 4,510 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/16/2007

API NO. ASSIGNED: 43-047-39128

WELL NAME: STATE 1021-32O

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

SWSE 32 100S 210E

SURFACE: 1008 FSL 2066 FEL

BOTTOM: 1008 FSL 2066 FEL

COUNTY: UINTAH

LATITUDE: 39.89946 LONGITUDE: -109.5727

UTM SURF EASTINGS: 622019 NORTHINGS: 4417363

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	4/24/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21577

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: ___

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

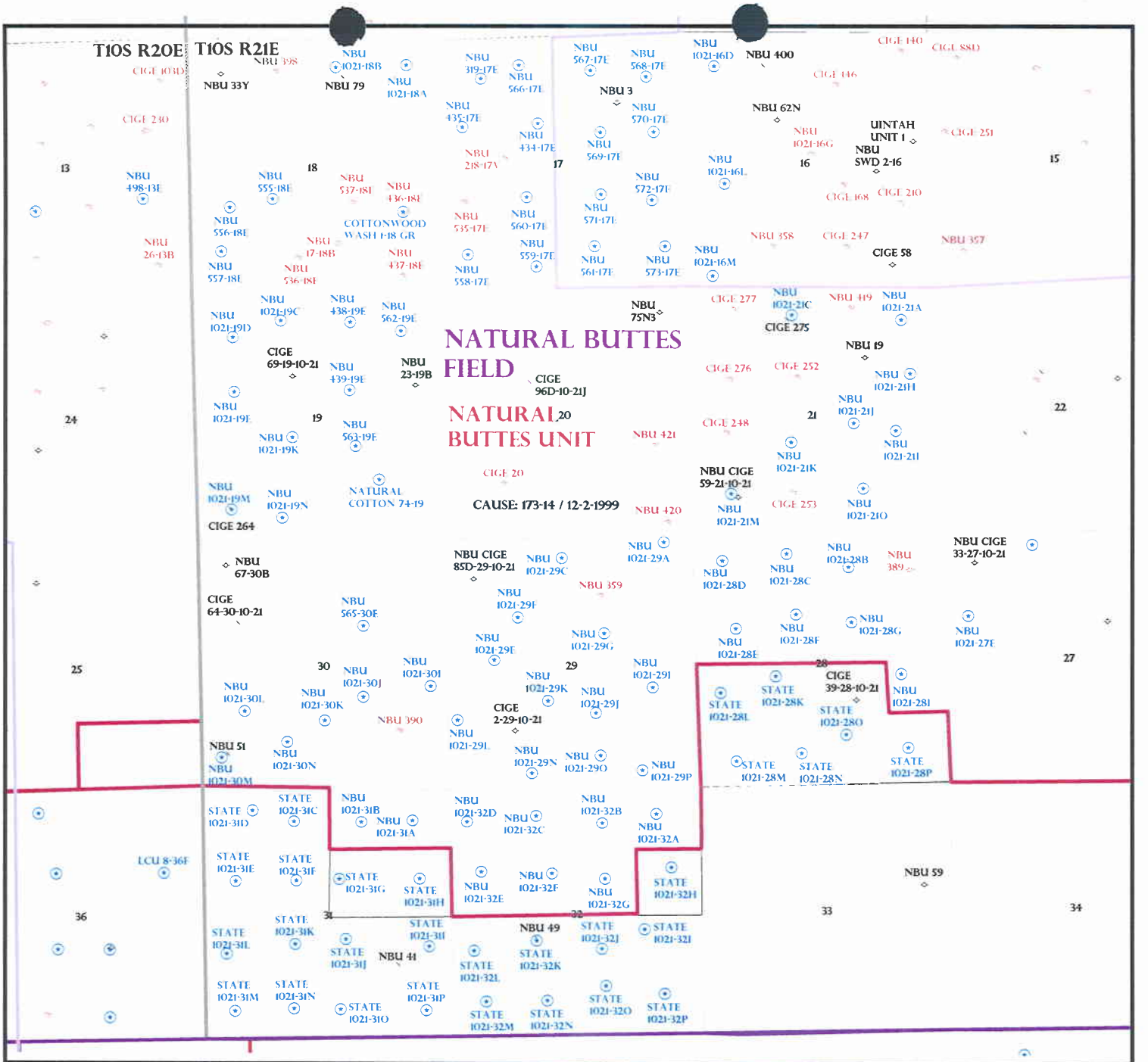
✓ R649-3-3. Exception

___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___

___ R649-3-11. Directional Drill

COMMENTS: Needs Permit (04-04-07)

STIPULATIONS: 1- Spacing Slip
2- STATEMENT OF BASIS
3 - Oil Shale
4 - Surface Csg Cmt Stip



OPERATOR: KERR MCGEE O&G (N9550)

SEC: 28,31,32 T.10S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

SPACING: R649-3-3 / EXCEPTION LOCATION

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON
DATE: 23-MARCH-2007

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
328	43-047-39128-00-00		GW	S	No

Operator KERR-MCGEE OIL & GAS ONSHORE, LP **Surface Owner-APD**
Well Name STATE 1021-32O **Unit**
Field UNDESIGNATED **Type of Work**
Location SWSE 32 10S 21E S 1008 FSL 2066 FEL GPS Coord (UTM) 622019E 4417363N

Geologic Statement of Basis

Kerr McGee proposes to set 1,700' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 32. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill — 4/16/2007
APD Evaluator — **Date / Time**

Surface Statement of Basis

The general area is within the Love area of the upper Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 12 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 18 miles southeast of Ouray, Utah and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 0.1 miles of the proposed site. New construction will be required from this point.

The proposed location is within the flat bottom but out of the flood plain of Cottonwood Wash. The drainage itself is incised and to the east. A side wash on the east portion of the location will be rerouted around the pad. Diversions are planned around both sides of the pad. The location was slid to avoid a gilsonite vein in the area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett — 4/4/2007
Onsite Evaluator — **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name STATE 1021-32O
API Number 43-047-39128-0 **APD No** 328 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SWSE **Sec** 32 **Tw** 10S **Rng** 21E 1008 FSL 2066 FEL
GPS Coord (UTM) 622020 4417368 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Keznic, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Ben Williams (UDWR)

Regional/Local Setting & Topography

The general area is within the Love area of the upper Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 12 miles to the White River. No seeps, springs or streams exist in the area.

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Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.1	**Width** 278	**Length** 350	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Vegetation is a greasewood type. Scattered greasewood, Russian thistle and spring annuals are present.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics
Deep sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required Y
Around both sides of the pad.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	25 1 **Sensitivity Level**

Characteristics / Requirements
The proposed reserve pit is 70' x 150' x 10' deep located in a cut on the southwest corner of the location. A 20 mil liner with a felt sub-liner is planned by Kerr McGee.
With the proximity to the bottom of an active drainage, care must be taken to insure the reserve pit is adequately lined and maintained.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

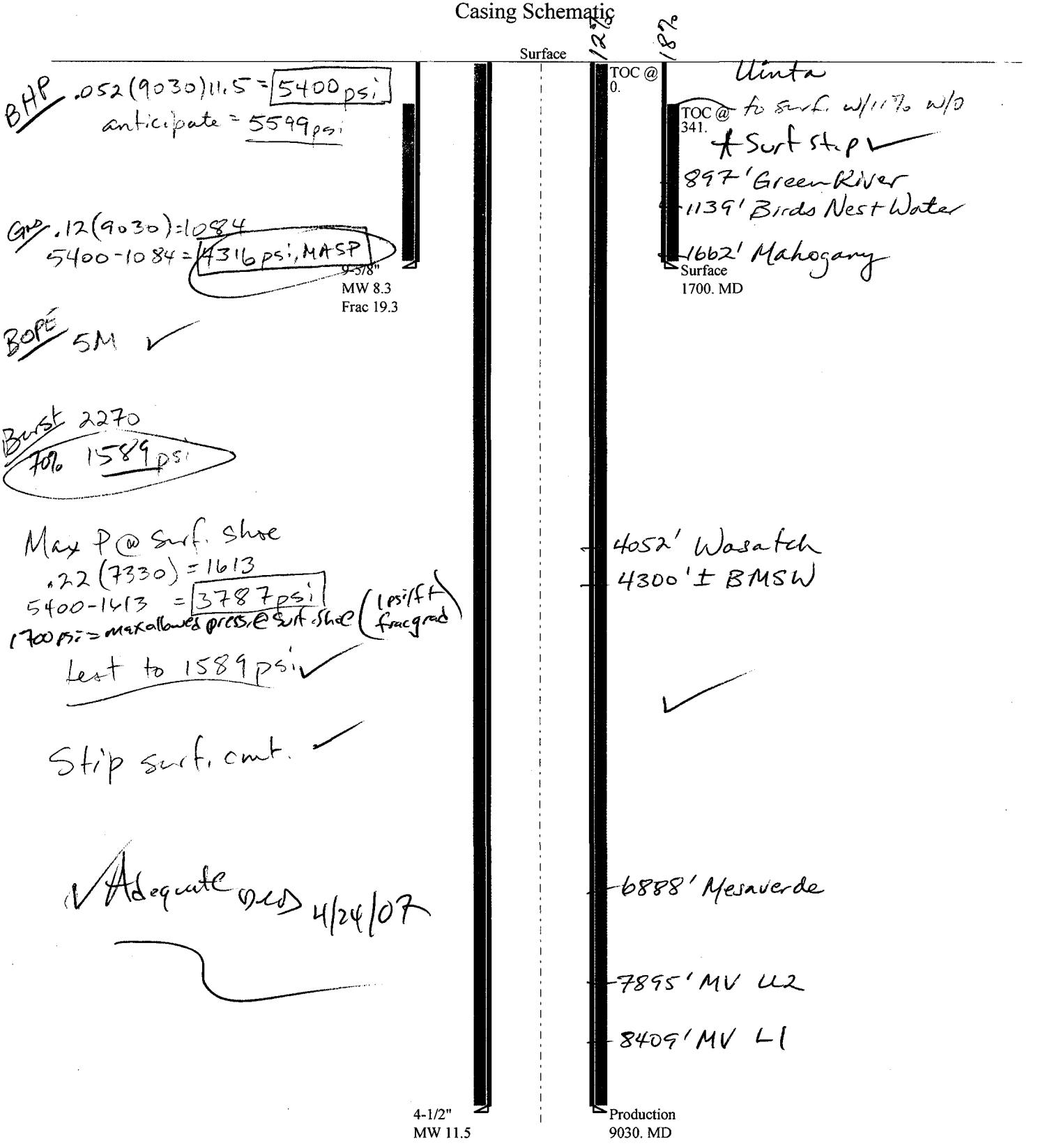
Ben Williams representing the UDWR stated the area is classified as yearlong critical habitat for antelope. He stated that the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Jim Davis of SITLA and Carroll Estes of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the location.

ATV's were used to access the site.

Floyd Bartlett	4/4/2007
Evaluator	**Date / Time**

2007-04 Kerr McGee State 1021-32O

Casing Schematic



Well name:	**2007-04 Kerr McGee State 1021-32O**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Surface
Project ID:	43-047-39128
Location:	Uintah County, Utah

Design parameters:

Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,496 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,700 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,493 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 99 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,400 ft

Cement top: 341 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,030 ft
Next mud weight: 11.500 ppg
Next setting BHP: 5,395 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,700 ft
Injection pressure: 1,700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	1700	9.625	32.30	H-40	ST&C	1700	1700	8.876	751.2

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	733	1370	1.869	1700	2270	1.34	48	254	5.27 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: April 19,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1700 ft, a mud weight of 8.3 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**2007-04 Kerr McGee State 1021-32O**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Production
Project ID:	43-047-39128
Location:	Uintah County, Utah

Design parameters:

Collapse

Mud weight: 11.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,408 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,395 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 7,478 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 201 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	9030	4.5	11.60	I-80	LT&C	9030	9030	3.875	788

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5395	6360	1.179	5395	7780	1.44	87	212	2.44 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: April 19,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9030 ft, a mud weight of 11.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: STATE 1021-32O

2. NAME OF OPERATOR: KERR McGEE OIL AND GAS ONSHORE LP

9. API NUMBER: 43.047.39128.

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078

PHONE NUMBER: (435) 781-7003

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1008' FSL 2066' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
_____	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

An onsite was conducted on 4/4/07 with the Division of Oil, Gas and Mining Representative and SITLA Representative. It was decided to change the proposed pipeline from a 4" pipeline that was approximately 431' +/- to, two 4" pipelines approximately 5,550' +/- and 850' +/-, a 6" pipeline approximately 7,600' +/-, and a 10" pipeline approximately 3,750' +/-.

Please refer to the attached Topo D.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

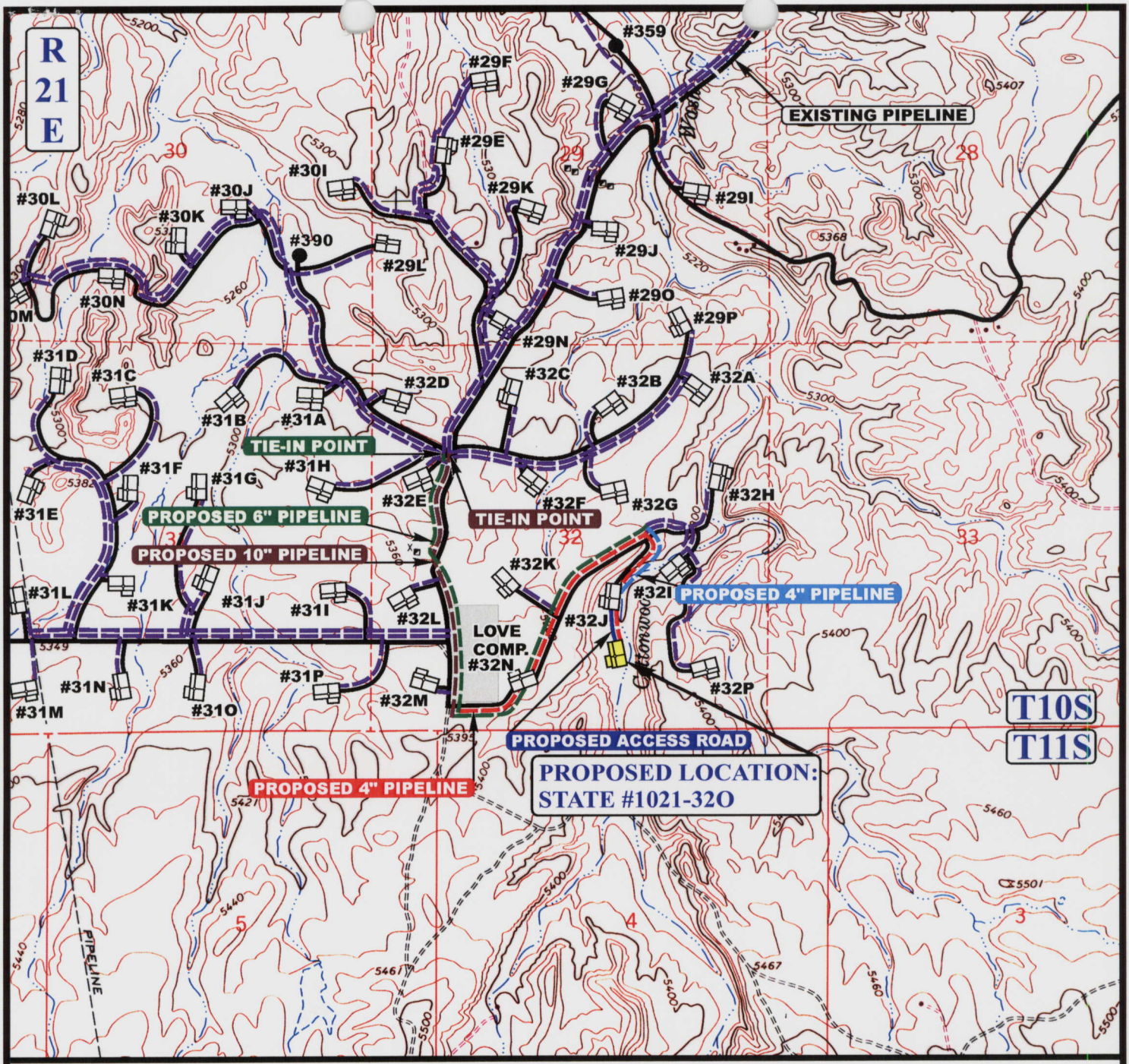
NAME (PLEASE PRINT) Ramey Hoopes TITLE Land Specialist I

SIGNATURE Ramey Hoopes DATE 4/18/2007

(This space for State use only)

RECEIVED
APR 23 2007
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)



APPROXIMATE TOTAL 4" PIPELINE DISTANCE = 850' +/-

APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 3,750' +/-

APPROXIMATE TOTAL 6" PIPELINE DISTANCE = 7,600' +/-

APPROXIMATE TOTAL 4" PIPELINE DISTANCE = 5,550' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

STATE #1021-32O
SECTION 32, T10S, R21E, S.L.B.&M.
1008' FSL 2066' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	12 MONTH	15 DAY	06 YEAR	D TOPO
SCALE: 1" =2000'	DRAWN BY: C.P.	REVISED: 04-12-07		

From: Ed Bonner
To: Mason, Diana
Date: 6/22/2007 10:23 AM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

EOG Resources, Inc
- Chapita Wells Unit 1330-32 (API 43 047 39293)
- Chapita Wells Unit 1326-32 (API 43 047 39294)
- Chapita Wells Unit 1327-32 (API 43 047 39295)
- Chapita Wells Unit 1325-32 (API 43 047 39296)
- Chapita Wells Unit 1331-32 (API 43 047 39300)
- Chapita Wells Unit 1328-32 (API 43 047 39301)

Kerr McGee Oil & Gas Onshore LP
- NBU 1021-19M (API 43 047 38150)
- NBU 1021-32A (API 43 047 39026)
- NBU 1021-32B (API 43 047 39027)
- NBU 1021-32C (API 43 047 39028)
- NBU 1021-32F (API 43 047 39029)
- NBU 1021-32P (API 43 047 39127)
- NBU 1021-32O (API 43 047 39128)
- NBU 1021-32N (API 43 047 39129)
- NBU 1021-32M (API 43 047 39130)
- NBU 1021-32L (API 43 047 39131)
- NBU 1021-32K (API 43 047 39132)
- NBU 1021-32J (API 43 047 39133)
- NBU 1021-32I (API 43 047 39134)
- NBU 1021-32H (API 43 047 39135)
- NBU 1021-32G (API 43 047 39136)
- NBU 1021-32D (API 43 047 39137)
- NBU 1021-32E (API 43 047 39138)

Parallel Petroleum Corporation
- Trail Creek Anticline 1-2-6-25 (API 43 047 38324)

QEP Uinta Basin Inc
- GB 7SG-36-8-21 (API 43 047 38765)

If you have any questions regarding this matter please give me a call.

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

June 25, 2007

Kerr-McGee Oil & Gas Onshore, LP
1368 South 1200 East
Vernal, UT 84078

Re: State 1021-32O Well, 1008' FSL, 2066' FEL, SW SE, Sec. 32, T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39128.

Sincerely,

Gil Hunt
Associate Director

er
Enclosures

cc: Uintah County Assessor
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number State 1021-32O

API Number: 43-047-39128

Lease: ML 21577

Location: SW SE **Sec.** 32 **T.** 10 South **R.** 21 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

8. Surface casing shall be cemented to the surface.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: State 1021-32O

2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP

9. API NUMBER: 4304739128

3. ADDRESS OF OPERATOR: PO Box 173779 CITY Denver STATE CO ZIP 80217-3779

PHONE NUMBER: (720) 929-6171

10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1008 FSL & 2066 FEL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD Extension
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr McGee Oil and Gas Onshore, LP respectfully requests a one year extension for State 1021-32O, in order to complete drilling operations. The Utah Division of Oil, Gas, and Mining initially approved this APD on 6/25/2007.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 07-08-08

By:

COPY SENT TO OPERATOR
Date: 7.9.2008
Initials: KS

NAME (PLEASE PRINT) Victoria Marques TITLE Regulatory Intern

SIGNATURE Victoria Marques DATE 6/25/2008

(This space for State use only)

RECEIVED
JUN 27 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739128
Well Name: State 1021-32O
Location: SWSE 1008 FSL 2066 FEL Sec. 32 T 10S 21E
Company Permit Issued to: Kerr-McGee Oil & Gas Onshore, LP
Date Original Permit Issued: 6/25/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐ No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐ No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐ No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐ No☑

Has the approved source of water for drilling changed? Yes☐ No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐ No☑

Is bonding still in place, which covers this proposed well? Yes☑ No☐

Victoria Marques
Signature

6/25/2008
Date

Title: Regulatory Intern

Representing: Kerr-McGee Oil & Gas Onshore, LP

RECEIVED
JUN 27 2008
DIV. OF OIL, GAS & MINING

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: STATE 1021-32O

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047391280000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/3/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: June 30, 2009

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/30/2009

RECEIVED June 30, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047391280000

API: 43047391280000
Well Name: STATE 1021-32O
Location: 1008 FSL 2066 FEL QTR SWSE SEC 32 TWNP 100S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 6/25/2007

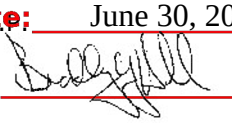
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 6/30/2009
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: June 30, 2009

By: 

RECEIVED June 30, 2009

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
STATE 1021-32O

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047391280000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6007 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/4/2010	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing for this well due to revised drilling practices. The surface casing depth is changing FROM: 1,700' TO: 1,810'. Additionally, the surface casing size is changing FROM: 9-5/8" TO: 8-5/8". Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 25, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		2/25/2010

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	February 25, 2010	
WELL NAME	**State 1021-32O**		TD	9,030' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,320'
SURFACE LOCATION	SW/4 SE/4 1,008' FSL 2,066' FEL	Sec 32 T 10S R 21E		BHL	Straight Hole
	Latitude: 39.899450	Longitude: -109.572672	NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (MINERALS), SITLA (SURFACE), UDOGM, Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.					
	Green River @	**897'**			
	Top of Birds Nest Water @	**1,139'**			
	Mahogany @	**1,662'**			
	Preset f/ GL @				
		1,810' MD			
	Note: 11" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.				
Mud logging program TBD Open hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.6 ppg
	Wasatch @	**4,052'**			
	Mverde @	**6,888'**			
	MVU2 @	**7,895'**			
	MVL1 @	**8,409'**			
	TD @	**9,030'**			Max anticipated Mud required 11.6 ppg

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	1810	28.00	IJ-55	LTC	0.98	2.22	6.80
								7,780	6,350	201,000
PRODUCTION	4-1/2"	0	to	9030	11.60	I-80	LTC	2.25	1.17	2.20

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.97

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,358 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,345 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	40		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite	140	35%	11.00	3.82
			+.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,550'	Premium Lite II + 3% KCl + 0.25 pps	320	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,480'	50/50 Poz/G + 10% salt + 2% gel	1,530	60%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER: John Huycke / Emile Goodwin **DATE:**

DRILLING SUPERINTENDENT: John Merkel / Lovel Young **DATE:**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739128	STATE 1021-32O		SWSE	32	10S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	17513	2/21/2010			2/25/10	
Comments: MIRU PETE MARTIN BUCKET RIG. SPUD WELL LOCATION ON 2/21/2010 AT 09:00 HRS. WSMVD							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE
Name (Please Print)
Signature
REGULATORY ANALYST
Title
2/25/2010
Date

RECEIVED
FEB 25 2010
DIV. OF OIL, GAS & MINING

(5/2000)

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: STATE 1021-32O

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047391280000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 3/2/2010	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETERO AIR RIG ON 02/22/2010. DRILLED 11" SURFACE HOLE TO 1803'. RAN 8 5/8 28# J-55 SURFACE CASING. TEST LINES TO 2000 PSI. PUMP 140 BBLS OF H2O. PUMP 20 BBLS OF GEL WATER. PUMP 130 SX OF 11 PPG, 3.82 YIELD CLASS G HI HILL LEAD CEMENT. PUMP 170 SX OF 15.8 PPG, 1.15 YIELD CLASS G PREMIUM LITE CEMENT. DROP PLUG ON FLY AND DISPLACE W/ 112 BBLS OF H2O. 15 BBLS OF LEAD TO SURFACE W/ 500 PSI OF LIFT. LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX OF 15.8 PPG, 1.15 YIELD CLASS G PREMIUM LITE TOP OUT CEMENT DOWN 1". CEMENT TO SURFACE. WORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 02, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Gianakos	307 752-1169	Regulatory Affairs Supervisor
SIGNATURE N/A		**DATE** 3/2/2010

RECEIVED March 02, 2010

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

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9. API NUMBER: 43047391280000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

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4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 02, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Gianakos	307 752-1169	Regulatory Affairs Supervisor
SIGNATURE N/A		**DATE** 3/2/2010

RECEIVED March 02, 2010

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

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7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
STATE 1021-32O

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047391280000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6007 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
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☐ SPUD REPORT Date of Spud:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ DRILLING REPORT Report Date: 6/12/2010	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PIONEER 69 RIG ON 5/19/2010. DRILLED FROM 1803' TO 7088'. STUCK PIPE AT 4760'. TOP OF FISH WAS 4667'. ATTEMPTED TO FREE STUCK PIPE AND REMOVE FISH FROM THE HOLE. L/D FISHING TOOLS ON 5/30/2010. DECISION WAS TO SIDETRACK HOLE. SET KICK OFF PLUG AT 4453'. TOP OF PLUG WAS AT 3812'. CMT PLUG CONSISTED OF 269 SX OF 17.5 PPG, 0.94 YLD CLASS G CMT. WAIT ON CMT FOR 4 HRS, TIH TAG @ 3154', WASH AND REAM FROM 3154'-3852'. DRILL CMT FROM 3852'-3917'. FINISHED DRILLING TO A TD OF 9091' ON 6/12/2010. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. PRESSURE TEST TO 4000 PSI. PUMPED 40 BBLS OF WATER SPACER. LEAD CMT W/500 SX CLASS G PREM LITE @ 12.9 PPG, 1.81 YLD. TAILED CMT W/1647 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YLD. FINAL LIFT PSI 2800 PSI. 40 BBL CMT TO SURFACE. ND BOP. RELEASE PIONEER 69 RIG ON 6/12/2010 AT 03:30 HRS. PLEASE SEE ATTACHED CHRONOLOGICAL WELL HISTORY FOR SIDETRACK INFORMATION.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 15, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		6/14/2010

RECEIVED June 14, 2010

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/22/2010	0:00 - 2:00	2.00	MIRU	01	B	P		MOVE RIG TO STATE 1021-32O
	2:00 - 19:30	17.50	DRLSUR	02	B	P		DRILL F/ 40' - 1700' SURVEY 510' .2 / 340.8 ; 1020' 1.2/142.6 ; 1500 .5/153.5
	19:30 - 20:00	0.50	DRLSUR	08	A	Z		WORK ON BLOWN KELLY HOSE
	20:00 - 22:30	2.50	DRLSUR	02	B	P		DRILL F/ 1700' - 1840' T.D.
	22:30 - 23:30	1.00	DRLSUR	05	C	P		CIRC & CONDITION MUD
	23:30 - 0:00	0.50	DRLSUR	10	A	P		SURVEY AT 1800' 2.6 / 158.9
2/23/2010	0:00 - 3:00	3.00	DRLSUR	06	A	P		LDDS
	3:00 - 5:30	2.50	DRLSUR	12	C	P		RUN 41 JOINTS 8.625 28# J-55 8RD-LTC CASING SHOE AT 1803'
	5:30 - 6:00	0.50	DRLSUR	05	A	P		FILL CASING AND RIG DOWN RELEASE RIG 2-23-2010 @ 0600
	6:00 - 8:00	2.00	DRLSUR	12	E	P		TEST LINES TO 2000' PSI, PUMP 140 BBLS OF H20 , PUMP 20 BBLS OF GEL WATER. PUMP 130 (75 BBLS) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 170 SX (34.8 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 112 BBLS OF 8.3# H20, 15BBLS OF LEAD TO SURFACE W/ 500 PSI OF LIFT @ 5 BBLS/MIN. W/ LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX (25.6 BBLS) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1" CEMENT TO SURFACE.
5/19/2010	10:00 - 15:30	5.50	DRLPRO	01	A	P		MOVE THE RIG F/ THE NBU 1021-32A TO THE STATE 1021-32O. TRUCKS AND CRANE WERE RELEASED @ 15:30.
	15:30 - 0:00	8.50	DRLPRO	01	B	P		RURT, PITS, PUMPS, LIGHT PLANT, ELECTRIC, AND THE FLOOR.
5/20/2010	0:00 - 2:00	2.00	DRLPRO	14	A	P		NU THE BOP
	2:00 - 3:00	1.00	DRLPRO	01	D	S		PU KELLY AND MUD MOTOR TO CLEAN OUT THE MOUSE HOLE. WHEN WE ATTEMPTED IT WITHOUT THE MUD MOTOR , THE BOTTOM FILL WAS TO HARD TO WASH OUT.
	3:00 - 7:30	4.50	DRLPRO	15	A	P		HELD A SM, RU B&C TESTERS. TESTED THE LOWER KELLY VALVE, UPPER KELLY VALVE, FLOOR VALVE, INSIDE BOP, PIPE RAMS, BLIND RAMS, CHOKE LINE VALVES, KILL LINE VALVES, MANIFOLD VALVES, AND SUPER CHOKE @ 250PSI/5MIN AND 5000 PSI/10 MIN TESTED THE ANNULAR TO 250 PSI/5 MIN 2500 PSI/ 10 MIN. TESTED THE SURFACE CASING TO 1500 PSI /30 MIN
	7:30 - 8:00	0.50	DRLPRO	14	B	P		INSTALLED THE WEAR BUSHING
	8:00 - 12:00	4.00	DRLPRO	06	A	P		RU KIMSEY AND PU THE BHA ORIENTED THE MWD TOOLS AND PU PIPE TO TIH
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 14:30	2.00	DRLPRO	06	A	P		FINISHED PU DP AND TIH. RD THE LD TRUCK
	14:30 - 16:30	2.00	DRLPRO	09	A	P		SLIPPED AND CUT 120' OF DRILLING LINE.
	16:30 - 20:00	3.50	DRLPRO	02	F	P		DRILLED CEMENT AND FLOAT EQUIP. TOC 1710'
	20:00 - 0:00	4.00	DRLPRO	02	B	P		DRILLING 1854' - 2097, 243'/4 HR, 61'/HR', W/ 20K WOB, ROTARY 55 RPM, 123 RPM MOTOR. WE HAD 2/15' SLIDES @ 350 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/21/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 2097' - 3109' 1012'/13.5 HR, 75'/HR 40 VIS 8.6 WT. OFF/ON BOTTOM 860#/1120# 260# DIFF. PU/SO/ROT 95/90/92 20K WOB RPM: ROTARY/55 MOTOR/128
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 3109' - 3741' 632 '/10 HR,63'/HR 46 VIS 9.8 WT. OFF/ON BOTTOM 1080#/1230# 150# DIFF. PU/SO/ROT 115/75/100 23K WOB RPM: ROTARY/55 MOTOR/128
5/22/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 3741' - 4435' 694 '/13.5 HR,51.4'/HR 46 VIS 10.6 WT. OFF/ON BOTTOM 1540#/1800# 260# DIFF. PU/SO/ROT 120/75/104 23K WOB RPM: ROTARY/55 MOTOR/128
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 4435' - 5004 569 '/10 HR,57'/HR 44 VIS 10.6 WT. OFF/ON BOTTOM 1580/1825# 245# DIFF. PU/SO/ROT 130/80/114 23K WOB RPM: ROTARY/55 MOTOR/128
5/23/2010	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILLING 5004' - 5825 821'/14.5 HR, 56.6'/HR 42 VIS 10.7 WT. OFF/ON BOTTOM 1740/1928# 188# DIFF. PU/SO/ROT 145/100/126 23K WOB RPM: ROTARY/55 MOTOR/125
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILLING 5825' - 6172 347'/9 HR, 38.5'/HR 42 VIS 11.1 WT. OFF/ON BOTTOM 1790/1920# 130# DIFF. PU/SO/ROT 152/105/135 23K WOB RPM: ROTARY/55 MOTOR/125 NOTE:BROUGHT THE MUD WT UP TO CONTROL SHALE SLOUGH.
5/24/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 6172' - 6645' 473'/13.5 HR, 35'/HR 42 VIS 11.2 WT. OFF/ON BOTTOM 1860/2080# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 6645' - 6938' 293'/10 HR, 29.3'/HR 42 VIS 11.3 WT. OFF/ON BOTTOM 1964/2091# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
5/25/2010	0:00 - 5:30	5.50	DRLPRO	02	B	P		DRILLING 6938' - 7088' 150'/5.5 HR, 27.3'/HR 42 VIS 11.4 WT. OFF/ON BOTTOM 1964/2091# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
	5:30 - 6:30	1.00	DRLPRO	05	C	P		CIRCULATED AND PUMPED A PILL
	6:30 - 8:30	2.00	DRLPRO	06	A	P		TOH F/ BIT. HOLE DRUG 30 - 40K F/ 6000' - 5800'. GOT TIGHT @ 4760'. DRILLER PULLED 40K OVER AND IT DID NOT MOVE AFTER THAT. STRING WT 140K
	8:30 - 11:00	2.50	DRLPRO	22	A	X		WORKED STUCK PIPE: WORKED THE PIPE DOWN F/ 180K TO 20K W/ NO SUCCESS. THEN WORKED IT UP PULLING F/ 180K - 240K MAX..
	11:00 - 17:00	6.00	DRLPRO	22	A	X		RIGGED UP A SWEDGE AND HOSE TO CIRCULATE. THE WELL CIRCULATED W/ NO PROBLEMS. CIRCULATED AND WORKED THE PIPE DOWN WHILE RAISING THE MUD WT. F/ 11.3 TO 12#. NO SUCCESS WORKING IT FREE. NO MOVEMENT OTHER THAN PIPE STRETCH.

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
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Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 21:00	4.00	DRLPRO	19	A	X		RIGGED UP DCT TO FREEPOINT. WE HAD GOOD PIPE STRETCH ALL THE WAY DOWN TO THE MONEL DC. WE HAD LIMITED TORQUE TO THE BOTTOM DC (4643') AND GOOD TORQUE MEASURED TO THE 3 DC UP F/ THE MONEL(4553'). IT APPEARS TO BE STUCK @ THE STABILIZER.
	21:00 - 22:00	1.00	DRLPRO	19	A	X		RIGGED UP THE DP SWEDGE AND HOSE TO CIRCULATE. CIRCULATED TO EQUALIZE THE ANNULUS AND STRING MUD WT. WE WERE OVERBALANCED IN THE DP. RU SHOT TOOL.
	22:00 - 0:00	2.00	DRLPRO	19	A	X		RAN IN THE HOLE TO SHOOT OFF. WE SET UP TO SHOOT @ 1746'. THE 1 ST ATTEMPT FAILED W/ 40K ON THE SLIPS AND 2.5 TURNS TO THE LEFT. RETOOLED FOR THE SHOT. SET UP @ 1746' W/ 30K ON THE SLIPS AND 3 TURNS TO THE LEFT . THE SHOT WAS SUCCESSFUL.
5/26/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		(BACKED OFF @ 1748') R/D DCT WIRELINE
	1:00 - 2:30	1.50	DRLPRO	19	A	X		TOOH ,L/D SHOT JT DRILL PIPE
	2:30 - 6:00	3.50	DRLPRO	19	A	X		P/U 4 1/2 XH SCREW IN SUB,BUMPER SUB,JARS,10-6 1/4 DCS,ENERGIZER TIH SCREW INTO FISH @ 1748'
	6:00 - 7:00	1.00	DRLPRO	19	A	X		WORK FISH JARRING DOWN 150K TO 50K, NO MOVEMENT
	7:00 - 7:30	0.50	DRLPRO	07	A	P		RIG SERVICE ,ADJUST BRAKES
	7:30 - 11:30	4.00	DRLPRO	19	A	X		CONTINUE TO JAR DOWN ON FISH 150K TO 50K R/U & CIRC ,MAX PULL 225 ,NO MOVEMENT
	11:30 - 14:30	3.00	DRLPRO	19	A	X		SAFETY MEETING W/ DCT ,R/U & RUN IN W/ RETRIEVING HEAD ,RETRIEVE MWD TOOL
	14:30 - 16:00	1.50	DRLPRO	19	A	X		CHANGE TOOLS ,RUN IN W/ FREE POINT TAG @ 4667' GAP SUB ,GOOD STRETCH & MOVEMENT
	16:00 - 18:00	2.00	DRLPRO	19	A	X		M/U STRING SHOT RUN IN & BACK OFF @ 4667' TOP OF GAP SUB ,TOP OF FISH 4667,LEFT IN HOLE GAP SUB,NMDC,HOS,NMPDC,IBS,MOTOR ,BIT ,TOTAL 85.33' OF FISH
	18:00 - 18:30	0.50	DRLPRO	19	A	X		BUILD &SPO T 13.1#,60 VIS SLUG ON TOP OF FISH
	18:30 - 22:00	3.50	DRLPRO	19	A	X		TOOH 20K TO 50K DRAG,L/D BUMPER SUB,JARS,ENERGIZER & SCREWIN SUB,CONTINUE TOOH STUCK AGAIN @ 2643', PULLED 100K OVER
	22:00 - 23:00	1.00	DRLPRO	19	A	X		P/U SURFACE JARS & JAR FREE
	23:00 - 0:00	1.00	DRLPRO	19	A	X		HOOK UP SWEDGE & CIRC ,HAD TO MOVE 5 STANDS DCS ACROSS DERRICK TO GET KELLY OUT
5/27/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		KELLY UP BACK REAK THROUGH TIGHT SPOT F/ 2643' TO 2635'
	1:00 - 3:30	2.50	DRLPRO	19	A	X		FINISH TOOH L/D NMDC
	3:30 - 6:30	3.00	DRLPRO	19	A	X		TIH W/ RR TRI CONE BIT TAG @ 2533'
	6:30 - 12:00	5.50	DRLPRO	19	A	X		WASH & REAM F/ 2533' TO 2586' ,RUN 2 STANDS,TAG @ 2712 ,W&R F/ 2712' TO 2850' ,RUN 13 STANDS ,TAG @ 3650' ,W&R F/ 3650' TO 3850' , HOLE SLOUGHING,PACKING OFF ,GETTING BACK A LARGE AMOUNT OF FINE TO 2" SHALES ,RAISE MUD WT TO 12.3,47 VIS
	12:00 - 14:00	2.00	DRLPRO	19	A	X		BREAK DOWN 9 STANDS OUT OF DERRICK
	14:00 - 21:00	7.00	DRLPRO	19	A	X		WASH & REAM F/ 3850' TO 4422' ,HOLE SLOUGHING &TRYING TO PACK OFF RAISE MUD WT TO 12.5,45 VIS,GETTING BACK ALOT OF FINE TO 1" SHALES

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010	
Project: UTAH-UINTAH	Site: STATE 1021-32O		Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010		End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 21:30	0.50	DRLPRO	19	A	X		BREAK DOWN 4 STANDS OUT OF DERRICK
	21:30 - 0:00	2.50	DRLPRO	19	A	X		WASH & REAM F/ 4422' TO 4564' ,HOLE SLOUGHING ,GETTING BACK ALOT OF FINE TO 1" SHALES
5/28/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		WASH & REAM F/ 4564' TO 4667' TOP OF FISH
	1:00 - 2:00	1.00	DRLPRO	19	A	X		CIRC,PUMP SWEEP, CIRC SWEEP OUT
	2:00 - 3:30	1.50	DRLPRO	19	A	X		SHORT TRIP 10 STANDS ,10K TO 40K DRAG F/ 4369' TO 4133' ,NO PROBLEMS ON TIH
	3:30 - 4:30	1.00	DRLPRO	19	A	X		CIRC BOTTOMS UP,PUMP PILL
	4:30 - 7:30	3.00	DRLPRO	19	A	X		WIPER TRIP TO CSG SHOE ,10K TO 40K DRAG THROUGHOUT THE GREEN RIVER
	7:30 - 8:30	1.00	DRLPRO	09	A	P		CIRC ,CUT & SLIP 235' DRILLING LINE
	8:30 - 9:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	9:00 - 10:30	1.50	DRLPRO	19	A	X		TIH TAG TOP OF FISH @ 4667' 3' FILL ,NO HOLE PROBLEMS
	10:30 - 11:30	1.00	DRLPRO	19	A	X		CIRC BOTTOMS UP ,PUMP PILL
	11:30 - 15:00	3.50	DRLPRO	19	A	X		TOOH L/D BIT & BIT SUB
	15:00 - 21:00	6.00	DRLPRO	19	A	X		P/U SCREW IN SUB,CIRC SUB,BUMPER SUB,JARS,RUN 11 DCS,P/U ENERGIZER, TIH
	21:00 - 21:30	0.50	DRLPRO	19	A	X		WASH 63' TO TOP OF FISH @ 4667',SCREW INTO FISH,P/U SURFACE JARS
	21:30 - 0:00	2.50	DRLPRO	19	A	X		JAR DOWN ON FISH ,SURFACE JARS UNLOADING 75K TO 90K OVER STRING WEGHT ,NO MOVEMENT
5/29/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		JARRING DOWN ON FISH ,SURFACE JARS UNLOADING 75K TO 90K OVER STRING WEIGHT
	1:00 - 1:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK
	1:30 - 4:00	2.50	DRLPRO	19	A	X		JARRING DOWN ON FISH
	4:00 - 4:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK
	4:30 - 6:00	1.50	DRLPRO	19	A	X		JARRING UP ON FISH 150K OVER STRING WEIGHT
	6:00 - 6:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK DAYLIGHT
	6:30 - 11:00	4.50	DRLPRO	19	A	X		JAR ON FISH ALTERNATING 5 TIMES UP ,5 TIMES DOWN ,NO MOVEMENT
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 13:00	1.50	DRLPRO	19	A	X		JAR ON FISH ALTERNATING ,5 TIMES UP ,5 TIMES DOWN ,NO MOVEMENT
	13:00 - 18:00	5.00	DRLPRO	19	A	X		SAFETY MEETING W/ DCT WIRELINE , UNSUCSESFUL AT BACKING OFF ON FIRST 2 ATTEMPTS @ 4667'
	18:00 - 19:00	1.00	DRLPRO	19	A	X		RUN IN W/ STRING SHOT # 3 ATTEMPT TO BACK OFF @ BOTTOM OF CIRC SUB @ 4664' UNSUCCESFUL
	19:00 - 19:30	0.50	DRLPRO	19	A	X		CIRC THROUGH CIRC SUB ,REDRESS STRING SHOT
	19:30 - 21:30	2.00	DRLPRO	19	A	X		RUN IN W/ STRING SHOT #4 ,PUT 3 1/4 ROUNDS LEFT TORQUE IN DRILLSTRING AND BACKED OFF WITHOUT FIRING SHOT,POOH R/D DCT WIRELINE (SHOULD BE BACKED OFF @ SCREWIN SUB)
	21:30 - 0:00	2.50	DRLPRO	19	A	X		TOOH TO FISHING TOOLS
5/30/2010	0:00 - 1:30	1.50	DRLPRO	19	A	X		TOOH ,L/D ENERGIZER,JARS,BUMPER SUB,CIRC,SUB,JARS
	1:30 - 6:00	4.50	DRLPRO	06	E	X		P/U R/R TRI-CONE BIT,BIT SUB TIH TAG @ 3776'
	6:00 - 7:30	1.50	DRLPRO	03	A	X		WASH & REAM F/ 3776' TO 3966' L/D 5 JTS RUN 2 STANDS
	7:30 - 9:30	2.00	DRLPRO	03	A	X		WASH & REAM F/ 3966' TO 4113' L/D 10 JTS RUN 5 STANDS

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 11:30	2.00	DRLPRO	03	A	X		WASH & REAM F/ 4113' TO 4554' ,RAISE MUD WT TO 12.9
	11:30 - 13:00	1.50	DRLPRO	05	C	X		CIRC & COND ,PUMP PILL
	13:00 - 16:00	3.00	DRLPRO	06	A	X		TOOH ,PULLED TIGHT F/ 4480' TO 3825' 20K TO 50K OVER STRING WT
	16:00 - 19:00	3.00	DRLPRO	06	C	X		TIH W/ OPEN ENDED DRILL PIPE TO 4453'
	19:00 - 21:30	2.50	DRLPRO	05	A	X		CIRC & COND , WAIT ON CEMENTERS,SAFETY MEETING W/ BJ SERVICES
	21:30 - 22:30	1.00	DRLPRO	17	A	X		HOOK UP BJ,& SET KICK OFF PLUG, PUMP 30 BBLS WATER,269 SX, 17.5 PPG,.94 YLD CLASS G CEMENT ,DISPLACE W/ 8.5 BBLS WATER & 44 BBLS DRILLING MUD, TOP OF PLUG 3812' ,R/D BJ SERVICES
	22:30 - 23:30	1.00	DRLPRO	06	C	X		TOOH TO 3193' ,620' ABOVE PLUG
	23:30 - 0:00	0.50	DRLPRO	05	G	X		CIRC & R/U KIMZEY
5/31/2010	0:00 - 6:00	6.00	DRLPRO	06	A	X		L/D 100 JOINTS DRILL PIPE & 10 DRILL COLLARS, R/D KIMZEY
	6:00 - 11:30	5.50	DRLPRO	06	A	X		P/U GX-28 BIT ,2.12 DEG .16 GPR MOTOR ,DIRECTIONAL TOOLS ORIENTATE MWD ,TIH TO SHOE, FILL PIPE
	11:30 - 14:30	3.00	DRLPRO	13	A	X		WAIT ON CEMENT
	14:30 - 15:00	0.50	DRLPRO	07	A	X		RIG SERVICE
	15:00 - 16:30	1.50	DRLPRO	06	A	X		TIH TAG @ 3154'
	16:30 - 18:00	1.50	DRLPRO	03	A	X		WASH & REAM F/ 3154 TO 3353' HOLE SLOUGHING & TRYING TO PACK OFF, GETTING BACK ALOT OF SHALES ,MUD WT 11.8
	18:00 - 19:00	1.00	DRLPRO	06	A	X		LAY DOWN 16 JOINTS & RUN 8 STANDS
	19:00 - 22:30	3.50	DRLPRO	03	A	X		WASH & REAM F/ 3353' TO 3852' , HOLE SLOUGHING, GETTING BACK ALOT OF BIG SHALES ,MUD WT 12.2
	22:30 - 0:00	1.50	DRLPRO	02	B	X		DRILL CEMENT F/ 3852' TO 3917'
6/1/2010	0:00 - 1:30	1.50	DRLPRO	02	B	X		DRILL CEMENT F/ 3917' TO 3953'
	1:30 - 8:00	6.50	DRLPRO	02	G	X		TIME DRILL F/ 3953' TO 3963'
	8:00 - 8:30	0.50	DRLPRO	02	B	X		SLIDE F/ 3963' TO 3973'
	8:30 - 9:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	9:00 - 9:30	0.50	DRLPRO	02	B	X		SLIDE F/ 3973' TO 3978' ,ROTATE F/ 3978' TO 3988'
	9:30 - 10:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	10:00 - 10:30	0.50	DRLPRO	02	B	X		SLIDE 3988' TO 3993' ,ROTATE 3993' TO 4003'
	10:30 - 11:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	11:00 - 11:30	0.50	DRLPRO	02	B	X		SLIDE F/ 4003' TO 4008' ,ROTATE F/ 4008' TO 4048'
	11:30 - 12:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 20 % FORMATION ,80 % CEMENT
	12:00 - 13:00	1.00	DRLPRO	02	B	X		ROTATE F/ 4048' TO 4058'' HARD DRILLING
	13:00 - 20:00	7.00	DRLPRO	02	G	X		TIME DRILLING F/ 4058' TO 4068'
	20:00 - 20:30	0.50	DRLPRO	05	E	X		CIRC BTMS UP 40% FORMATION ,60% CEMENT
	20:30 - 21:30	1.00	DRLPRO	02	B	X		SLIDE F/ 4068' TO 4073'
	21:30 - 22:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 70% FORMATION ,30% CEMENT
	22:00 - 23:00	1.00	DRLPRO	02	B	X		ROTATE 4073' TO 4088' WOB 25-28 ,RPM 40-44 ,SPM 120 GPM 454 ,UP/SO/ROT 110-75-90 ,ON/OFF 2200-2000 ,DIFF 230 ,WT 12.5 ,VIS 49 ,95% FORMATION ,5% CEMENT
	23:00 - 0:00	1.00	DRLPRO	02	B	X		SLIDE F/ 4088' TO 4093'' ,FORMATION 100% ,TRACE CEMENT
6/2/2010	0:00 - 6:00	6.00	DRLPRO	02	B	X		DRILL & SLIDE F/ 4093' TO 4143' WOB 25-28 ,RPM 40 ,MMRPM 72,SPM 120 ,GPM 454 ,UP/SO/ROT 125-85-92 ,ON/OFF 2230-2200 ,DIFF 230 ,SURVEY @ 4082' 3.65 INC ,138.42 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 6:30	0.50	DRLPRO	07	A	X		RIG SERVICE
	6:30 - 7:00	0.50	DRLPRO	05	C	X		CIRC ,BUILD & PUMP PILL
	7:00 - 11:00	4.00	DRLPRO	06	A	X		TFNB
	11:00 - 12:00	1.00	DRLPRO	06	A	X		P/U Q506F ,ADJUST MOTOR TO 1.5 DEG, SCRIBE MWD , TIH TO SHOE
	12:00 - 13:00	1.00	DRLPRO	09	A	X		FILL PIPE , SLIP & CUT DRILL LINE
	13:00 - 14:00	1.00	DRLPRO	06	A	X		FINISH TIH
	14:00 - 14:30	0.50	DRLPRO	03	D	X		WASH 40' TO BTM ,8' FILL
	14:30 - 0:00	9.50	DRLPRO	02	B	X		DRILL F/ 4143' TO 4639' ,(496' @ 52.2' HR) WOB 17-20 ,RPM 45-60,MMRPM 72 ,SPM 120 ,GPM 454 ,UP/SO/ROT 120- 90- 105, ON/OFF 2350-1850 ,DIFF 350-550 ,LAST SURVEY @ 4518' 4.83 INC ,136.57 AZM
6/3/2010	0:00 - 8:00	8.00	DRLPRO	02	B	X		DRILL & SURVEY F/ 4639' TO 4997' (358' @ 44.7' HR) WOB 20-22 ,RPM 50=60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 125-80-115, ON/OFF 2200-2000 ,DIFF 150-300 ,LAST SURVEY @ 4714' 4.8 INC 138.32 AZM
	8:00 - 8:30	0.50	DRLPRO	07	A	X		RIG SERVICE
	8:30 - 0:00	15.50	DRLPRO	02	B	X		DRILL,SLIDE & SURVEY F/ 4997' TO 5533' (536' @ 34.5' HR) WOB 20-22 ,RPM 45-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 135-100-116 ,ON/OFF 2550-2250 ,DIFF 200-550 ,(SLIDES 5251-5261 ,5285-5295 ,5316-5326 ,5350-5360) LAST SURVEY @ 5564' 1.65 INC ,167.83 AZM
6/4/2010	0:00 - 17:30	17.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 5533' TO 6197' (664' @ 37.9' HR) WOB 22-25 ,RPM 50-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 155-80-130 ,ON/OFF 2350-2150 ,DIFF 100-300 ,LAST SURVEY @ 5880 1.84 INC ,181.05 AZM
	17:30 - 18:00	0.50	DRLPRO	07	A	X		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	B	X		DRILL& SURVEY F/ 6197' TO 6370' (173' @ 28.3' HF) WOB 22-25 ,RPM 45-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 150-105-127 ,ON/OFF 2315/2150 ,DIFF 100-300 ,LAST SURVEY @ 6199' 2.02 INC ,171.99 AZM
6/5/2010	0:00 - 10:00	10.00	DRLPRO	02	B	X		DRILL & SURVEY F/ 6370' TO 6671' (301' @ 30.1' HR) WOB 22-24 ,RTPM 50 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 160-90-135 ,ON/OFF 2400-2200,DIFF 100-275 ,HAD A FEW TIGHT CONNECTIONS & HOLE TRYING TO PACK OFF
	10:00 - 13:00	3.00	DRLPRO	06	E	X		PUMP PILL ,WIPER TRIP TO 2650' , WORK THROUGH TIGHT SPOTS @ 6535' TO 6530' ,5965' TO 5955' ,5681' TO 5676 ,'5344' TO 5329' ,4669' TO 4656' 20K TO 75K DRAG
	13:00 - 14:00	1.00	DRLPRO	06	E	X		TIH TAG @ 5070'
	14:00 - 15:30	1.50	DRLPRO	03	A	X		WASH & REAM FROM 5070' TO 5132' & 5648' TO 5712'
	15:30 - 16:00	0.50	DRLPRO	06	E	X		FINISH TIH
	16:00 - 17:00	1.00	DRLPRO	02	B	X		DRILL F/ 6671' TO 6703'
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 6703' TO 6890' (187' @ 28.7' HR) WOB 22-25 ,RPM 45-65 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 155-110-135 ,ON/OFF 2460-2225 ,DIFF 100-250 ,LAST SURVEY @ 6829' 2.02 INC ,178.67 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/6/2010	0:00 - 15:30	15.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 6890' TO 7241' (351' @ 22.6' HR) WOB 22-28 ,RPM 45-60 ,MM 69 ,SPM 120 ,GPM 435 ,UP/SO/ROT 155-120-142 ,ON/OFF 2500-2300 ,DIFF 100-235 BIT BALLING ,PUMPING NUT PLUG SWEEPS
	15:30 - 16:00	0.50	DRLPRO	05	C	P		CIRC OUT SWEEP ,PUMP PILL
	16:00 - 21:00	5.00	DRLPRO	06	A	P		TFNB , L/D BIT & MOTOR , (NO PROBLEMS)
	21:00 - 0:00	3.00	DRLPRO	06	A	P		P/U NEW Q506F ,1.5 DEG .16 GPR MOTOR ,SCRIBE MWD ,TIH, FILL PIPE @ SHOE
6/7/2010	0:00 - 3:00	3.00	DRLPRO	06	A	P		FINISH TIH ,FILL PIPE HALF WAY ,WASH 30' TO BTM
	3:00 - 16:30	13.50	DRLPRO	02	B	P		DRILL & SURVEY F/ 7241' TO 7620' (379' @ 28' HR) WOB 25-28 ,RPM 45-55 ,MM RPM 67, SPM 110 ,GPM 416 ,UP/SO/ROT 165-125-147 ,ON/OFF 2400-2250 ,DIFF 100-250 ,PUMPING NUT SHELL SWEEPS
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 7620' TO 7810' (190' @ 27.1' HR) WOB 22-28 ,RPM 45-60 ,MMRPM 67 ,SPM 110 ,GPM 416 ,UP/SO/ROT 165-125-147 ,ON/OFF 2500-2275 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
6/8/2010	0:00 - 16:00	16.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 7810' TO 8284' (474' @ 29.6' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 110 ,GPM 416 ,UP/SO/ROT 177-135-156 ,ON/OFF 2483-2298 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILL & SURVEY F/ 8284' - 8505' (221' @ 29.5' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 180-138-163 ,ON/OFF 2534-2381 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
6/9/2010	0:00 - 13:00	13.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 8505' - 8852' (347' @ 26.7' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 187-140-166 ,ON/OFF 2630-2365 ,DIFF 150-300 ,MW 12.8 ,VIS 43 ,PUMP NUT SHELL SWEEPS
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:30 - 22:00	8.50	DRLPRO	02	B	P		DRILL & SURVEY F/8852' - 9100' (248' @ 29.2' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 190-145-166 ,ON/OFF 2630-2365 ,DIFF 150-300 ,MW 12.8 ,VIS 46 ,PUMP NUT SHELL SWEEPS
	22:00 - 23:30	1.50	DRLPRO	05	C	P		CIRCULATED TO SHORT TRIP
	23:30 - 0:00	0.50	DRLPRO	06	E	P		SHORT TRIP
6/10/2010	0:00 - 3:00	3.00	DRLPRO	06	E	P		FINISHED WIPER TRIP 50 STANDS TO 5841' NO FILL, NO EXCESS DRAG
	3:00 - 4:30	1.50	DRLPRO	05	C	P		CIRCULATED FOR LOGS
	4:30 - 10:30	6.00	DRLPRO	06	B	P		TOH F/ LOGS
	10:30 - 12:00	1.50	DRLPRO	06	B	P		LD THE DIRECTIONAL TOOLS AND MUD MOTOR
	12:00 - 20:30	8.50	DRLPRO	11	D	P		RIGGED UP BAKER ATLAS, HELD A S/M, RAN TRIPLE COMBO LOG F/ TD TO SURFACE (1813'). LOGGERS TD 9098' 7285' TOTAL LOGGED.
	20:30 - 0:00	3.50	DRLPRO	06	E	P		TIH TO LDDP
6/11/2010	0:00 - 1:30	1.50	DRLPRO	06	E	P		FINISHED TIH AND PU 4 JTS TO MAKE UP FOR THE MUD MOTOR AND MWD ASSEMBLY. NO FILL

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:30 - 3:00	1.50	DRLPRO	05	C	P		CIRCULATED W/ 12.9 WT 46 VIS. RU THE LAYDOWN CREW, HELD A SAFETY MEETING AND PUMP PILL.
	3:00 - 10:00	7.00	DRLPRO	06	A	P		LDDP
	10:00 - 11:00	1.00	DRLPRO	01	E	P		BREAK AND LD THE KELLY, PULL THE ROTATING RUBBER
	11:00 - 11:30	0.50	DRLPRO	06	A	P		LD THE BHA
	11:30 - 12:30	1.00	DRLPRO	12	A	P		PULLED THE WEAR BUSHING. RU KIMSEY CASING CREW AND HELD A SAFETY MEETING
	12:30 - 19:30	7.00	DRLPRO	12	C	P		RAN 215 JTS OF 4 1/2, 11.6#, I-80, BTC CSG LANDED @ 9090.61' SHOE/9089.11, FC/9045.52, MARKER /3815.08'. MANDRELL SET @ 18' KB
	19:30 - 21:00	1.50	DRLPRO	05	D	P		CIRCULATE RD KIMSEY AND RU BJ HOLD A SM TO CEMENT
	21:00 - 23:30	2.50	DRLPRO	12	E	P		HELD A SM. PRESSURE TESTED TO 4000 PSI. PUMPED 40 BBL. OF WATER SPACER/ LEAD CMT; 500 SKS PREM. LITE II, 12.9 PPG, 1.81 YLD, 9.14 GPS H2O,.1% BWOC SODIUM METASILICATE, .05 PPS STATIC FREE + 0.4% BWOC R-3 + 0.25 PPS CELLOFLAKE + 5PPS KOL SEAL + 6% BWOC BENTONITE. TAIL CEMENT: 1647 SKS OF 50/50 POZ CLASS G CEMENT, 14.3 PPG, 1.31 YLD, 5.91 GPS H2O, .05 PPS STATIC FREE + 10% BWOW SODIUM CHLORIDE + .2% BWOC R-3 + 0.002 GPS FP-6L + 2% BWOC BENTONITE/ DIPLACED WITH 139.9 BBL. OF CLAYTREAT H2O+ 1GL OF MAGNACIDE. FINAL LIFT PSI 2800 PSI. PLUG BUMPED W/ 3500 PSI. 1.5 BBL WASHBACK. PD @ 23:15 6/11/2010. 40 BBL. OF CEMENT TO SURFACE. CLEAN UP RD CEMENTERS
	23:30 - 0:00	0.50	DRLPRO	14	A	P		ND BOP
6/12/2010	0:00 - 3:30	3.50	DRLPRO	01	E	P		ND THE BOP AND CLEAN PITS. RIG RELEASED @ 03:30 6/12/2010

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.00ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	3:30 - 3:30	0.00	DRLPRO					CONDUCTOR CASING: Cond. Depth set: Cement sx used: SPUD DATE/TIME: 2/22/2010 14:00 SURFACE HOLE: Surface From depth: 14 Surface To depth: 1,854 Total SURFACE hours: 20.00 Surface Casing size: 8 2/3 # of casing joints ran: 41 Casing set MD: 1,817.0 # sx of cement: 130/170/ top out 125 Cement blend (ppg:) 11.1/15.8/ top out 15.8 Cement yield (ft3/sk): 3.82/1.15/ top out 1.15 # of bbls to surface: Describe cement issues: 0 bbl to surface top out w/ 125 sx Describe hole issues: PRODUCTION: Rig Move/Skid start date/time: 5/19/2010 10:00 Rig Move/Skid finish date/time: 5/19/2010 15:30 Total MOVE hours: 5.5 Prod Rig Spud date/time: 5/20/2010 18:00 Rig Release date/time: 6/12/2010 3:30 Total SPUD to RR hours: 537.5 Planned depth MD 9,092 Planned depth TVD 9,092 Actual MD: 9,100 Actual TVD: 9,097 Open Wells $: $1,432,435 AFE $: Open wells $/ft: $157.41 PRODUCTION HOLE: Prod. From depth: 1,854 Prod. To depth: 9,100 Total PROD hours: Log Depth: 9098 Production Casing size: 4 1/2 # of casing joints ran: 215 Casing set MD: 9,090.6 # sx of cement: LEAD/500 TAIL/1647 Cement blend (ppg:) LEAD/12.9 TAIL 14.3 Cement yield (ft3/sk): LEAD/1.81 TAIL/1.31 Est. TOC (Lead & Tail) or 2 Stage : LEAD/18' TAIL/1843' Describe cement issues: Describe hole issues: DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
STATE 1021-32O

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047391280000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6007 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SPUD REPORT Date of Spud:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ DRILLING REPORT Report Date: 7/1/2010	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 7/1/2010 AT 10:30 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 07, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		7/1/2010

RECEIVED July 01, 2010

API Well No: 43047391280000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER: STATE 1021-32O

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047391280000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 7/26/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUNDRY DATED 6/12/2010 REPORTING FINAL DRILLING OPERATIONS REPORTED TD @ 9091'. THE TD SHOULD HAVE BEEN REPORTED AT 9100'. ALL OTHER INFORMATION ON SUNDRY DATED 6/12/2010 IS CORRECT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

July 27, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		7/26/2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 21577
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: STATE 1021-32O
9. API NUMBER: 4304739128
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 10S 21E S
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: SWSE 1008'FSL&2066'FEL S32,T10S,R21E
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH: 0816 FSL 1959 FEL SWSE

14. DATE SPUDDED: 2/21/2010
15. DATE T.D. REACHED: 6/12/2010
16. DATE COMPLETED: 7/1/2010 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 5322 GL

18. TOTAL DEPTH: MD 9,100 TVD ~~9,092~~ 9093
19. PLUG BACK T.D.: MD 9,047 TVD ~~9,039~~ 9040
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
√CBL/GR-HRI-CCAL-CNL-DL, BHP

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" J-55	28#		1,818		425			
7 7/8"	4 1/2" I-80	11.6#		9,090		2,147			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5,630							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	5,750	6,480		
(B) MESAVERDE	7,290	8,595		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
5,750	6,480	0.36	96	Open ☑ Squeezed ☐
7,290	8,595	0.36	120	Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5750-6480	PUMP 3,779 BBLS SLICK H2O & 160,624 LBS 30/50 SAND
7290-8595	PUMP 3,915 BBLS SLICK H2O & 128,517 LBS 30/50 SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

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(5/2000) (CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
7/1/2010	7/7/2010	24		10	1,708	115	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
32/64	446	788					10	1,708	115	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	821				
BIRD'S NEST	1,093				
MAHOGANY	1,551				
WASATCH	4,057	6,880			
MESAVERDE	6,880	9,100	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 7/27/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Scientific Drilling
Rocky Mountain Operations

END OF WELL REPORT

Prepared For:

Kerr McGee Oil & Gas Onshore LP
State 1021-32O
State 1021-32O Pad
Pioneer 69
Uintah County, UT

Prepared By:

Rex Hall, Grand Junction D.E.
Scientific Drilling
Rocky Mountain Region

Scientific Drilling International
7237 W. Barton Rd., Casper, WY 82604
P.O. Box 1600, Mills, WY 82644
(307) 472-6621
rex.hall@scientificdrilling.com

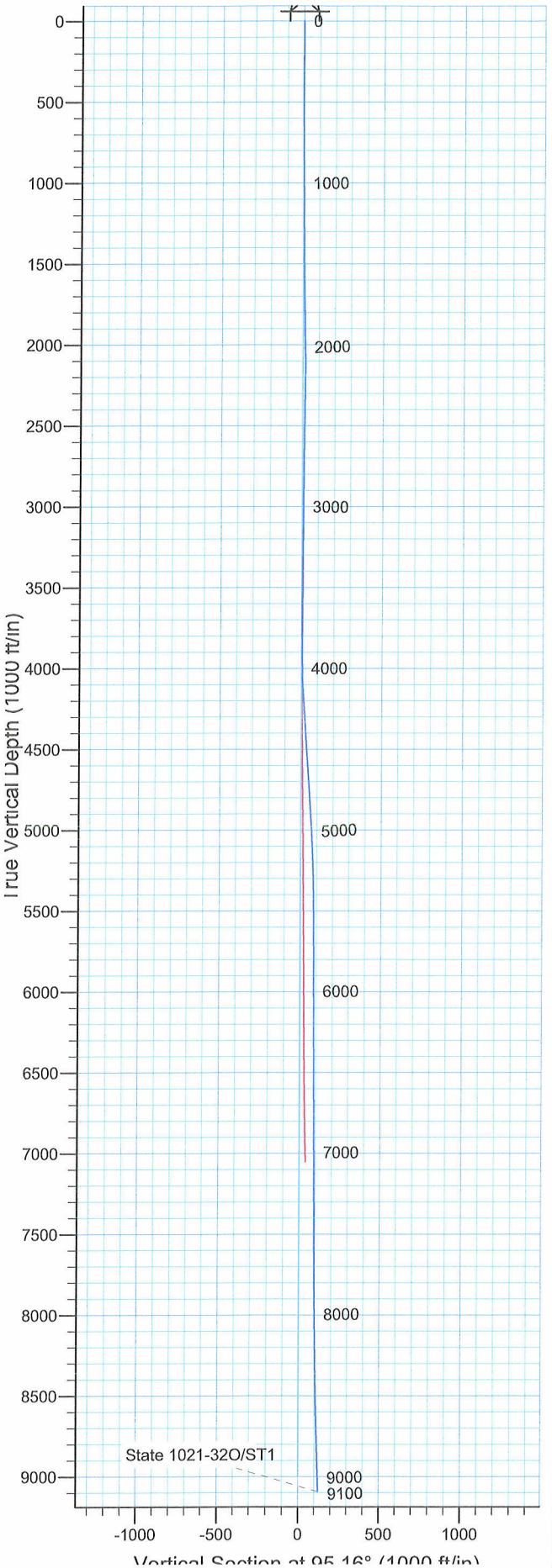
Scientific Drilling
Rocky Mountain Operations

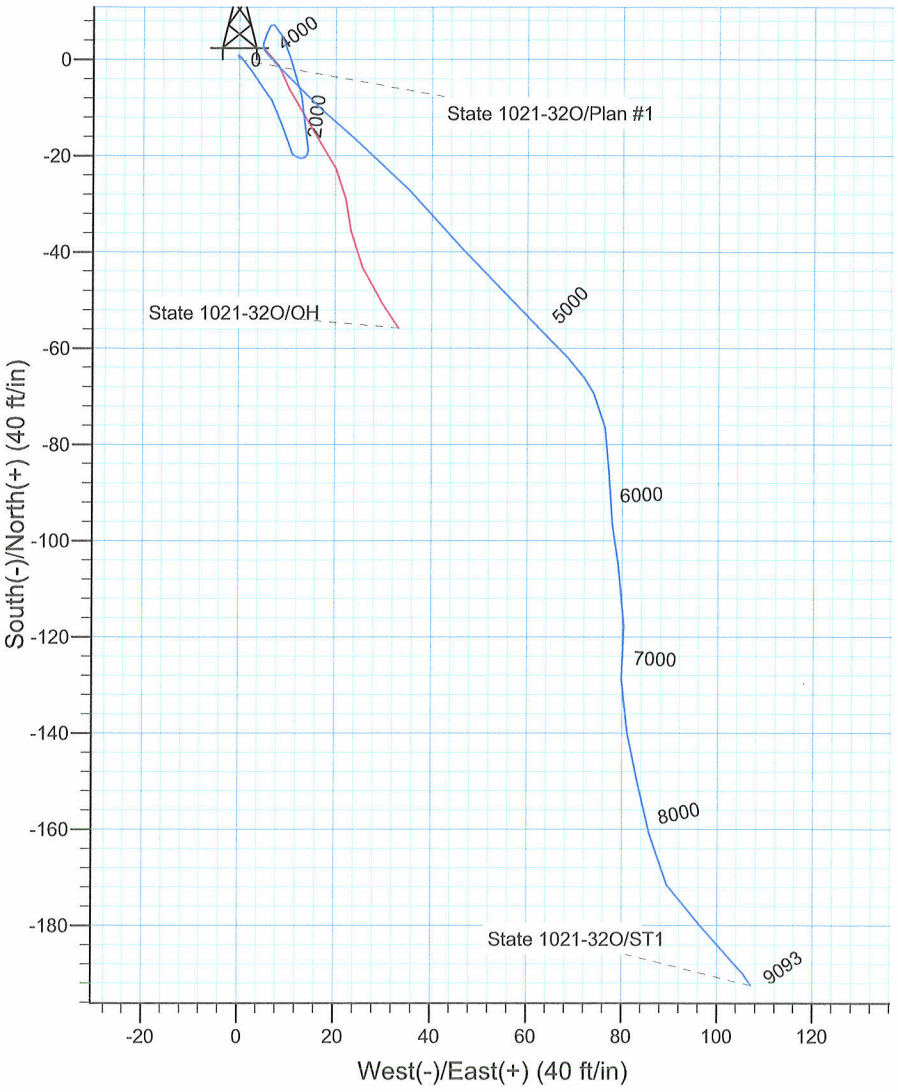
TABLE OF CONTENTS

Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: State 1021-32O Pad
Well: State 1021-32O
Wellbore: ST1
Design: ST1

Kerr McGee Oil and Gas Onshore LP





WELL DETAILS: State 1021-32O

Ground Level: GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14492629.88	2040744.82	39° 53' 58.020 N	109° 34' 21.619 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well State 1021-32O, True North
Vertical (TVD) Reference: GL 5320' & RKB 18' @ 5338.00ft (Pioneer 6
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5320' & RKB 18' @ 5338.00ft (Pioneer 6
Calculation Method: Minimum Curvature
Local North: True
Location: Sec 32 T10S R21E

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)

Design: ST1 (State 1021-32O/ST1)

Created By: Rex Hall Date: 2010-07-06

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
State 1021-32O Pad
State 1021-32O
ST1

Design: ST1

Standard Survey Report

06 July, 2010

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well State 1021-32O
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Site:	State 1021-32O Pad	**MD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Well:	State 1021-32O	**North Reference:**	True
Wellbore:	ST1	**Survey Calculation Method:**	Minimum Curvature
Design:	ST1	**Database:**	EDM 2003.16 Multi-User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	State 1021-32O Pad, Sec 32 T10S R21E				
Site Position:		**Northing:**	14,492,629.88 ft	**Latitude:**	39° 53' 58.020 N
From:	Lat/Long	**Easting:**	2,040,744.82 ft	**Longitude:**	109° 34' 21.619 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	0.92 °

Well	State 1021-32O, 1008' FSL & 2066' FEL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,492,629.88 ft	**Latitude:**	39° 53' 58.020 N
	+E/-W	0.00 ft	**Easting:**	2,040,744.82 ft	**Longitude:**	109° 34' 21.619 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,320.00 ft

Wellbore	ST1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2005-10	2009/12/31	11.26	65.82	52,437

Design	ST1				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	3,872.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.00	0.00	0.00	95.16	

Survey Program **Date** 2010/07/06

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
14.00	1,814.00	Survey #1 - Surface Mag Single Shot (OH)	CB-MAG-SS	Camera based mag single shot
1,883.00	3,872.00	Survey #2 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1
3,987.00	5,314.00	Survey #1 - ST1 Production MWD (ST1)	MWD SDI	MWD - Standard ver 1.0.1
5,564.00	9,100.00	Survey #2 - ST1 Production MWD Only (ST	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00
524.00	0.20	340.80	524.00	0.84	-0.29	-0.37	0.04	0.04	0.00
1,034.00	1.20	142.60	1,033.97	-2.56	2.66	2.88	0.27	0.20	31.73
1,514.00	0.50	153.50	1,513.91	-8.43	6.65	7.38	0.15	-0.15	2.27
1,814.00	2.60	158.90	1,813.78	-15.95	9.68	11.08	0.70	0.70	1.80
1,883.00	1.83	167.92	1,882.73	-18.49	10.47	12.10	1.22	-1.12	13.07
2,010.00	1.71	91.57	2,009.69	-20.52	12.79	14.59	1.72	-0.09	-60.12
2,101.00	2.25	2.43	2,100.65	-18.77	14.23	15.86	3.08	0.59	-97.96
2,418.00	1.88	341.97	2,417.45	-7.61	12.88	13.51	0.26	-0.12	-6.45

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well State 1021-32O
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Site:	State 1021-32O Pad	**MD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Well:	State 1021-32O	**North Reference:**	True
Wellbore:	ST1	**Survey Calculation Method:**	Minimum Curvature
Design:	ST1	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,725.00	1.21	346.45	2,724.33	0.33	10.56	10.49	0.22	-0.22	1.46
3,047.00	0.54	323.24	3,046.30	4.85	8.86	8.38	0.23	-0.21	-7.21
3,366.00	0.45	325.64	3,365.28	7.09	7.25	6.58	0.03	-0.03	0.75
3,625.00	1.29	201.19	3,624.26	5.21	5.62	5.13	0.61	0.32	-48.05
3,872.00	0.27	135.14	3,871.24	2.20	5.03	4.81	0.49	-0.41	-26.74
3,987.00	0.24	160.60	3,986.24	1.78	5.30	5.12	0.10	-0.03	22.14
First SDI ST1 Production MWD Survey									
4,082.00	3.65	138.42	4,081.17	-0.67	7.37	7.40	3.61	3.59	-23.35
4,113.00	5.13	135.06	4,112.08	-2.39	9.01	9.19	4.84	4.77	-10.84
4,145.00	5.39	136.39	4,143.94	-4.49	11.05	11.41	0.90	0.81	4.16
4,240.00	5.20	132.08	4,238.54	-10.60	17.33	18.21	0.46	-0.20	-4.54
4,334.00	5.13	130.68	4,332.16	-16.20	23.68	25.04	0.15	-0.07	-1.49
4,518.00	4.83	136.57	4,515.46	-27.18	35.24	37.54	0.32	-0.16	3.20
4,714.00	4.80	138.32	4,710.77	-39.30	46.37	49.72	0.08	-0.02	0.89
5,030.00	4.45	133.67	5,025.74	-57.64	64.02	68.95	0.16	-0.11	-1.47
5,314.00	1.83	155.63	5,309.30	-69.38	73.87	79.81	1.00	-0.92	7.73
Last SDI ST1 Production MWD Survey									
5,564.00	1.65	167.83	5,559.19	-76.54	76.27	82.85	0.16	-0.07	4.88
First SDI Production MWD Only Survey									
5,880.00	1.84	181.05	5,875.04	-86.06	77.14	84.57	0.14	0.06	4.18
6,199.00	2.02	171.99	6,193.86	-96.74	77.83	86.22	0.11	0.06	-2.84
6,450.00	1.83	170.31	6,444.72	-105.07	79.12	88.26	0.08	-0.08	-0.67
6,829.00	2.02	178.67	6,823.51	-117.72	80.29	90.56	0.09	0.05	2.21
7,152.00	1.74	186.39	7,146.33	-128.28	79.88	91.10	0.12	-0.09	2.39
7,175.00	1.73	178.31	7,169.32	-128.98	79.85	91.14	1.06	-0.04	-35.13
7,493.00	2.29	170.59	7,487.13	-140.04	81.03	93.31	0.20	0.18	-2.43
7,780.00	1.78	164.54	7,773.94	-149.99	83.16	96.32	0.19	-0.18	-2.11
8,096.00	2.25	168.78	8,089.75	-160.81	85.67	99.80	0.16	0.15	1.34
8,412.00	1.93	151.96	8,405.54	-171.59	89.38	104.46	0.22	-0.10	-5.32
8,728.00	2.19	129.48	8,721.34	-180.13	96.54	112.37	0.27	0.08	-7.11
9,039.00	2.76	145.28	9,032.05	-190.06	105.39	122.08	0.28	0.18	5.08
Last SDI Production MWD Only Survey									
9,100.00	2.76	145.28	9,092.98	-192.47	107.07	123.96	0.00	0.00	0.00
Projection To TD									

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
State 1021-32O Pad
State 1021-32O
ST1

Design: ST1

Survey Report - Geographic

06 July, 2010

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well State 1021-32O
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Site:	State 1021-32O Pad	**MD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Well:	State 1021-32O	**North Reference:**	True
Wellbore:	ST1	**Survey Calculation Method:**	Minimum Curvature
Design:	ST1	**Database:**	EDM 2003.16 Multi-User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	State 1021-32O Pad, Sec 32 T10S R21E				
Site Position:		**Northing:**	14,492,629.88 ft	**Latitude:**	39° 53' 58.020 N
From:	Lat/Long	**Easting:**	2,040,744.82 ft	**Longitude:**	109° 34' 21.619 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	0.92 °

Well	State 1021-32O, 1008' FSL & 2066' FEL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,492,629.88 ft	**Latitude:**	39° 53' 58.020 N
	+E/-W	0.00 ft	**Easting:**	2,040,744.82 ft	**Longitude:**	109° 34' 21.619 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,320.00 ft

Wellbore	ST1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2005-10	2009/12/31	11.26	65.82	52,437

Design	ST1				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	3,872.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.00	0.00	0.00	95.16	

Survey Program **Date** 2010/07/06

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
14.00	1,814.00	Survey #1 - Surface Mag Single Shot (OH)	CB-MAG-SS	Camera based mag single shot
1,883.00	3,872.00	Survey #2 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1
3,987.00	5,314.00	Survey #1 - ST1 Production MWD (ST1)	MWD SDI	MWD - Standard ver 1.0.1
5,564.00	9,100.00	Survey #2 - ST1 Production MWD Only (ST	MWD SDI	MWD - Standard ver 1.0.1

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well State 1021-32O
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Site:	State 1021-32O Pad	**MD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Well:	State 1021-32O	**North Reference:**	True
Wellbore:	ST1	**Survey Calculation Method:**	Minimum Curvature
Design:	ST1	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,492,629.88	2,040,744.82	39° 53' 58.020 N	109° 34' 21.619 W
14.00	0.00	0.00	14.00	0.00	0.00	14,492,629.88	2,040,744.82	39° 53' 58.020 N	109° 34' 21.619 W
524.00	0.20	340.80	524.00	0.84	-0.29	14,492,630.72	2,040,744.52	39° 53' 58.028 N	109° 34' 21.623 W
1,034.00	1.20	142.60	1,033.97	-2.56	2.66	14,492,627.36	2,040,747.52	39° 53' 57.995 N	109° 34' 21.585 W
1,514.00	0.50	153.50	1,513.91	-8.43	6.65	14,492,621.56	2,040,751.60	39° 53' 57.937 N	109° 34' 21.534 W
1,814.00	2.60	158.90	1,813.78	-15.95	9.68	14,492,614.09	2,040,754.76	39° 53' 57.862 N	109° 34' 21.495 W
1,883.00	1.83	167.92	1,882.73	-18.49	10.47	14,492,611.56	2,040,755.59	39° 53' 57.837 N	109° 34' 21.485 W
2,010.00	1.71	91.57	2,009.69	-20.52	12.79	14,492,609.56	2,040,757.94	39° 53' 57.817 N	109° 34' 21.455 W
2,101.00	2.25	2.43	2,100.65	-18.77	14.23	14,492,611.34	2,040,759.35	39° 53' 57.834 N	109° 34' 21.437 W
2,418.00	1.88	341.97	2,417.45	-7.61	12.88	14,492,622.47	2,040,757.82	39° 53' 57.945 N	109° 34' 21.454 W
2,725.00	1.21	346.45	2,724.33	0.33	10.56	14,492,630.38	2,040,755.38	39° 53' 58.023 N	109° 34' 21.484 W
3,047.00	0.54	323.24	3,046.30	4.85	8.86	14,492,634.87	2,040,753.60	39° 53' 58.068 N	109° 34' 21.506 W
3,366.00	0.45	325.64	3,365.28	7.09	7.25	14,492,637.08	2,040,751.96	39° 53' 58.090 N	109° 34' 21.526 W
3,625.00	1.29	201.19	3,624.26	5.21	5.62	14,492,635.18	2,040,750.36	39° 53' 58.071 N	109° 34' 21.547 W
3,872.00	0.27	135.14	3,871.24	2.20	5.03	14,492,632.16	2,040,749.82	39° 53' 58.042 N	109° 34' 21.555 W
3,987.00	0.24	160.60	3,986.24	1.78	5.30	14,492,631.75	2,040,750.09	39° 53' 58.038 N	109° 34' 21.551 W
First SDI ST1 Production MWD Survey									
4,082.00	3.65	138.42	4,081.17	-0.67	7.37	14,492,629.33	2,040,752.21	39° 53' 58.013 N	109° 34' 21.525 W
4,113.00	5.13	135.06	4,112.08	-2.39	9.01	14,492,627.64	2,040,753.87	39° 53' 57.996 N	109° 34' 21.504 W
4,145.00	5.39	136.39	4,143.94	-4.49	11.05	14,492,625.57	2,040,755.95	39° 53' 57.976 N	109° 34' 21.477 W
4,240.00	5.20	132.08	4,238.54	-10.60	17.33	14,492,619.56	2,040,762.32	39° 53' 57.915 N	109° 34' 21.397 W
4,334.00	5.13	130.68	4,332.16	-16.20	23.68	14,492,614.06	2,040,768.75	39° 53' 57.860 N	109° 34' 21.315 W
4,518.00	4.83	136.57	4,515.46	-27.18	35.24	14,492,603.26	2,040,780.49	39° 53' 57.751 N	109° 34' 21.167 W
4,714.00	4.80	138.32	4,710.77	-39.30	46.37	14,492,591.32	2,040,791.81	39° 53' 57.632 N	109° 34' 21.024 W
5,030.00	4.45	133.67	5,025.74	-57.64	64.02	14,492,573.27	2,040,809.76	39° 53' 57.450 N	109° 34' 20.798 W
5,314.00	1.83	155.63	5,309.30	-69.38	73.87	14,492,561.69	2,040,819.79	39° 53' 57.334 N	109° 34' 20.671 W
Last SDI ST1 Production MWD Survey									
5,564.00	1.65	167.83	5,559.19	-76.54	76.27	14,492,554.57	2,040,822.31	39° 53' 57.263 N	109° 34' 20.640 W
First SDI Production MWD Only Survey									
5,880.00	1.84	181.05	5,875.04	-86.06	77.14	14,492,545.07	2,040,823.33	39° 53' 57.169 N	109° 34' 20.629 W
6,199.00	2.02	171.99	6,193.86	-96.74	77.83	14,492,534.39	2,040,824.19	39° 53' 57.064 N	109° 34' 20.620 W
6,450.00	1.83	170.31	6,444.72	-105.07	79.12	14,492,526.08	2,040,825.61	39° 53' 56.981 N	109° 34' 20.604 W
6,829.00	2.02	178.67	6,823.51	-117.72	80.29	14,492,513.46	2,040,826.99	39° 53' 56.856 N	109° 34' 20.589 W
7,152.00	1.74	186.39	7,146.33	-128.28	79.88	14,492,502.89	2,040,826.74	39° 53' 56.752 N	109° 34' 20.594 W
7,175.00	1.73	178.31	7,169.32	-128.98	79.85	14,492,502.20	2,040,826.73	39° 53' 56.745 N	109° 34' 20.594 W
7,493.00	2.29	170.59	7,487.13	-140.04	81.03	14,492,491.15	2,040,828.08	39° 53' 56.636 N	109° 34' 20.579 W
7,780.00	1.78	164.54	7,773.94	-149.99	83.16	14,492,481.23	2,040,830.37	39° 53' 56.537 N	109° 34' 20.552 W
8,096.00	2.25	168.78	8,089.75	-160.81	85.67	14,492,470.46	2,040,833.05	39° 53' 56.430 N	109° 34' 20.520 W
8,412.00	1.93	151.96	8,405.54	-171.59	89.38	14,492,459.74	2,040,836.93	39° 53' 56.324 N	109° 34' 20.472 W
8,728.00	2.19	129.48	8,721.34	-180.13	96.54	14,492,451.32	2,040,844.23	39° 53' 56.239 N	109° 34' 20.380 W
9,039.00	2.76	145.28	9,032.05	-190.06	105.39	14,492,441.53	2,040,853.24	39° 53' 56.141 N	109° 34' 20.267 W
Last SDI Production MWD Only Survey									
9,100.00	2.76	145.28	9,092.98	-192.47	107.07	14,492,439.14	2,040,854.95	39° 53' 56.117 N	109° 34' 20.245 W
Projection To TD									

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well State 1021-32O
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Site:	State 1021-32O Pad	**MD Reference:**	GL 5320' & RKB 18' @ 5338.00ft (Pioneer 69)
Well:	State 1021-32O	**North Reference:**	True
Wellbore:	ST1	**Survey Calculation Method:**	Minimum Curvature
Design:	ST1	**Database:**	EDM 2003.16 Multi-User Db

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
3,987.00	3,986.24	1.78	5.30	First SDI ST1 Production MWD Survey
5,314.00	5,309.30	-69.38	73.87	Last SDI ST1 Production MWD Survey
5,564.00	5,559.19	-76.54	76.27	First SDI Production MWD Only Survey
9,039.00	9,032.05	-190.06	105.39	Last SDI Production MWD Only Survey
9,100.00	9,092.98	-192.47	107.07	Projection To TD

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/22/2010	0:00 - 2:00	2.00	MIRU	01	B	P		MOVE RIG TO STATE 1021-32O
	2:00 - 19:30	17.50	DRLSUR	02	B	P		DRILL F/ 40' - 1700' SURVEY 510' .2 / 340.8 ; 1020' 1.2/142.6 ; 1500 .5/153.5
	19:30 - 20:00	0.50	DRLSUR	08	A	Z		WORK ON BLOWN KELLY HOSE
	20:00 - 22:30	2.50	DRLSUR	02	B	P		DRILL F/ 1700' - 1840' T.D.
	22:30 - 23:30	1.00	DRLSUR	05	C	P		CIRC & CONDITION MUD
	23:30 - 0:00	0.50	DRLSUR	10	A	P		SURVEY AT 1800' 2.6 / 158.9
2/23/2010	0:00 - 3:00	3.00	DRLSUR	06	A	P		LDDS
	3:00 - 5:30	2.50	DRLSUR	12	C	P		RUN 41 JOINTS 8.625 28# J-55 8RD-LTC CASING SHOE AT 1803'
	5:30 - 6:00	0.50	DRLSUR	05	A	P		FILL CASING AND RIG DOWN RELEASE RIG 2-23-2010 @ 0600
	6:00 - 8:00	2.00	DRLSUR	12	E	P		TEST LINES TO 2000' PSI, PUMP 140 BBLS OF H20 , PUMP 20 BBLS OF GEL WATER. PUMP 130 (75 BBLS) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 170 SX (34.8 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 112 BBLS OF 8.3# H20, 15BBLS OF LEAD TO SURFACE W/ 500 PSI OF LIFT @ 5 BBLS/MIN. W/ LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX (25.6 BBLS) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1" CEMENT TO SURFACE.
5/19/2010	10:00 - 15:30	5.50	DRLPRO	01	A	P		MOVE THE RIG F/ THE NBU 1021-32A TO THE STATE 1021-32O. TRUCKS AND CRANE WERE RELEASED @ 15:30.
	15:30 - 0:00	8.50	DRLPRO	01	B	P		RURT, PITS, PUMPS, LIGHT PLANT, ELECTRIC, AND THE FLOOR.
5/20/2010	0:00 - 2:00	2.00	DRLPRO	14	A	P		NU THE BOP
	2:00 - 3:00	1.00	DRLPRO	01	D	S		PU KELLY AND MUD MOTOR TO CLEAN OUT THE MOUSE HOLE. WHEN WE ATTEMPTED IT WITHOUT THE MUD MOTOR , THE BOTTOM FILL WAS TO HARD TO WASH OUT.
	3:00 - 7:30	4.50	DRLPRO	15	A	P		HELD A SM, RU B&C TESTERS. TESTED THE LOWER KELLY VALVE, UPPER KELLY VALVE, FLOOR VALVE, INSIDE BOP, PIPE RAMS, BLIND RAMS, CHOKE LINE VALVES, KILL LINE VALVES, MANIFOLD VALVES, AND SUPER CHOKE @ 250PSI/5MIN AND 5000 PSI/10 MIN TESTED THE ANNULAR TO 250 PSI/5 MIN 2500 PSI/ 10 MIN. TESTED THE SURFACE CASING TO 1500 PSI /30 MIN
	7:30 - 8:00	0.50	DRLPRO	14	B	P		INSTALLED THE WEAR BUSHING
	8:00 - 12:00	4.00	DRLPRO	06	A	P		RU KIMSEY AND PU THE BHA ORIENTED THE MWD TOOLS AND PU PIPE TO TIH
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 14:30	2.00	DRLPRO	06	A	P		FINISHED PU DP AND TIH. RD THE LD TRUCK
	14:30 - 16:30	2.00	DRLPRO	09	A	P		SLIPPED AND CUT 120' OF DRILLING LINE.
	16:30 - 20:00	3.50	DRLPRO	02	F	P		DRILLED CEMENT AND FLOAT EQUIP. TOC 1710'
	20:00 - 0:00	4.00	DRLPRO	02	B	P		DRILLING 1854' - 2097, 243'/4 HR, 61'/HR', W/ 20K WOB, ROTARY 55 RPM, 123 RPM MOTOR. WE HAD 2/15' SLIDES @ 350 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/21/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 2097' - 3109' 1012'/13.5 HR, 75'/HR 40 VIS 8.6 WT. OFF/ON BOTTOM 860#/1120# 260# DIFF. PU/SO/ROT 95/90/92 20K WOB RPM: ROTARY/55 MOTOR/128
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 3109' - 3741' 632 '/10 HR,63'/HR 46 VIS 9.8 WT. OFF/ON BOTTOM 1080#/1230# 150# DIFF. PU/SO/ROT 115/75/100 23K WOB RPM: ROTARY/55 MOTOR/128
5/22/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 3741' - 4435' 694 '/13.5 HR,51.4'/HR 46 VIS 10.6 WT. OFF/ON BOTTOM 1540#/1800# 260# DIFF. PU/SO/ROT 120/75/104 23K WOB RPM: ROTARY/55 MOTOR/128
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 4435' - 5004 569 '/10 HR,57'/HR 44 VIS 10.6 WT. OFF/ON BOTTOM 1580/1825# 245# DIFF. PU/SO/ROT 130/80/114 23K WOB RPM: ROTARY/55 MOTOR/128
5/23/2010	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILLING 5004' - 5825 821'/14.5 HR, 56.6'/HR 42 VIS 10.7 WT. OFF/ON BOTTOM 1740/1928# 188# DIFF. PU/SO/ROT 145/100/126 23K WOB RPM: ROTARY/55 MOTOR/125
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILLING 5825' - 6172 347'/9 HR, 38.5'/HR 42 VIS 11.1 WT. OFF/ON BOTTOM 1790/1920# 130# DIFF. PU/SO/ROT 152/105/135 23K WOB RPM: ROTARY/55 MOTOR/125 NOTE:BROUGHT THE MUD WT UP TO CONTROL SHALE SLOUGH.
5/24/2010	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILLING 6172' - 6645' 473'/13.5 HR, 35'/HR 42 VIS 11.2 WT. OFF/ON BOTTOM 1860/2080# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILLING 6645' - 6938' 293'/10 HR, 29.3'/HR 42 VIS 11.3 WT. OFF/ON BOTTOM 1964/2091# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
5/25/2010	0:00 - 5:30	5.50	DRLPRO	02	B	P		DRILLING 6938' - 7088' 150'/5.5 HR, 27.3'/HR 42 VIS 11.4 WT. OFF/ON BOTTOM 1964/2091# 180# DIFF. PU/SO/ROT 155/125/141 23K WOB RPM: ROTARY/55 MOTOR/125
	5:30 - 6:30	1.00	DRLPRO	05	C	P		CIRCULATED AND PUMPED A PILL
	6:30 - 8:30	2.00	DRLPRO	06	A	P		TOH F/ BIT. HOLE DRUG 30 - 40K F/ 6000' - 5800'. GOT TIGHT @ 4760'. DRILLER PULLED 40K OVER AND IT DID NOT MOVE AFTER THAT. STRING WT 140K
	8:30 - 11:00	2.50	DRLPRO	22	A	X		WORKED STUCK PIPE: WORKED THE PIPE DOWN F/ 180K TO 20K W/ NO SUCCESS. THEN WORKED IT UP PULLING F/ 180K - 240K MAX..
	11:00 - 17:00	6.00	DRLPRO	22	A	X		RIGGED UP A SWEDGE AND HOSE TO CIRCULATE. THE WELL CIRCULATED W/ NO PROBLEMS. CIRCULATED AND WORKED THE PIPE DOWN WHILE RAISING THE MUD WT. F/ 11.3 TO 12#. NO SUCCESS WORKING IT FREE. NO MOVEMENT OTHER THAN PIPE STRETCH.

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 21:00	4.00	DRLPRO	19	A	X		RIGGED UP DCT TO FREEPOINT. WE HAD GOOD PIPE STRETCH ALL THE WAY DOWN TO THE MONEL DC. WE HAD LIMITED TORQUE TO THE BOTTOM DC (4643') AND GOOD TORQUE MEASURED TO THE 3 DC UP F/ THE MONEL(4553'). IT APPEARS TO BE STUCK @ THE STABILIZER.
	21:00 - 22:00	1.00	DRLPRO	19	A	X		RIGGED UP THE DP SWEDGE AND HOSE TO CIRCULATE. CIRCULATED TO EQUALIZE THE ANNULUS AND STRING MUD WT. WE WERE OVERBALANCED IN THE DP. RU SHOT TOOL.
	22:00 - 0:00	2.00	DRLPRO	19	A	X		RAN IN THE HOLE TO SHOOT OFF. WE SET UP TO SHOOT @ 1746'. THE 1 ST ATTEMPT FAILED W/ 40K ON THE SLIPS AND 2.5 TURNS TO THE LEFT. RETOOLED FOR THE SHOT. SET UP @ 1746' W/ 30K ON THE SLIPS AND 3 TURNS TO THE LEFT . THE SHOT WAS SUCCESSFUL.
5/26/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		(BACKED OFF @ 1748') R/D DCT WIRELINE
	1:00 - 2:30	1.50	DRLPRO	19	A	X		TOOH ,L/D SHOT JT DRILL PIPE
	2:30 - 6:00	3.50	DRLPRO	19	A	X		P/U 4 1/2 XH SCREW IN SUB,BUMPER SUB,JARS,10-6 1/4 DCS,ENERGIZER TIH SCREW INTO FISH @ 1748'
	6:00 - 7:00	1.00	DRLPRO	19	A	X		WORK FISH JARRING DOWN 150K TO 50K, NO MOVEMENT
	7:00 - 7:30	0.50	DRLPRO	07	A	P		RIG SERVICE ,ADJUST BRAKES
	7:30 - 11:30	4.00	DRLPRO	19	A	X		CONTINUE TO JAR DOWN ON FISH 150K TO 50K R/U & CIRC ,MAX PULL 225 ,NO MOVEMENT
	11:30 - 14:30	3.00	DRLPRO	19	A	X		SAFETY MEETING W/ DCT ,R/U & RUN IN W/ RETRIEVING HEAD ,RETRIEVE MWD TOOL
	14:30 - 16:00	1.50	DRLPRO	19	A	X		CHANGE TOOLS ,RUN IN W/ FREE POINT TAG @ 4667' GAP SUB ,GOOD STRETCH & MOVEMENT
	16:00 - 18:00	2.00	DRLPRO	19	A	X		M/U STRING SHOT RUN IN & BACK OFF @ 4667' TOP OF GAP SUB ,TOP OF FISH 4667,LEFT IN HOLE GAP SUB,NMDC,HOS,NMPDC,IBS,MOTOR ,BIT ,TOTAL 85.33' OF FISH
	18:00 - 18:30	0.50	DRLPRO	19	A	X		BUILD &SPO T 13.1#,60 VIS SLUG ON TOP OF FISH
	18:30 - 22:00	3.50	DRLPRO	19	A	X		TOOH 20K TO 50K DRAG,L/D BUMPER SUB,JARS,ENERGIZER & SCREWIN SUB,CONTINUE TOOH STUCK AGAIN @ 2643', PULLED 100K OVER
	22:00 - 23:00	1.00	DRLPRO	19	A	X		P/U SURFACE JARS & JAR FREE
	23:00 - 0:00	1.00	DRLPRO	19	A	X		HOOK UP SWEDGE & CIRC ,HAD TO MOVE 5 STANDS DCS ACROSS DERRICK TO GET KELLY OUT
5/27/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		KELLY UP BACK REAK THROUGH TIGHT SPOT F/ 2643' TO 2635'
	1:00 - 3:30	2.50	DRLPRO	19	A	X		FINISH TOOH L/D NMDC
	3:30 - 6:30	3.00	DRLPRO	19	A	X		TIH W/ RR TRI CONE BIT TAG @ 2533'
	6:30 - 12:00	5.50	DRLPRO	19	A	X		WASH & REAM F/ 2533' TO 2586' ,RUN 2 STANDS,TAG @ 2712 ,W&R F/ 2712' TO 2850' ,RUN 13 STANDS ,TAG @ 3650' ,W&R F/ 3650' TO 3850' , HOLE SLOUGHING,PACKING OFF ,GETTING BACK A LARGE AMOUNT OF FINE TO 2" SHALES ,RAISE MUD WT TO 12.3,47 VIS
	12:00 - 14:00	2.00	DRLPRO	19	A	X		BREAK DOWN 9 STANDS OUT OF DERRICK
	14:00 - 21:00	7.00	DRLPRO	19	A	X		WASH & REAM F/ 3850' TO 4422' ,HOLE SLOUGHING &TRYING TO PACK OFF RAISE MUD WT TO 12.5,45 VIS,GETTING BACK ALOT OF FINE TO 1" SHALES

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 21:30	0.50	DRLPRO	19	A	X		BREAK DOWN 4 STANDS OUT OF DERRICK
	21:30 - 0:00	2.50	DRLPRO	19	A	X		WASH & REAM F/ 4422' TO 4564' ,HOLE SLOUGHING ,GETTING BACK ALOT OF FINE TO 1" SHALES
5/28/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		WASH & REAM F/ 4564' TO 4667' TOP OF FISH
	1:00 - 2:00	1.00	DRLPRO	19	A	X		CIRC,PUMP SWEEP, CIRC SWEEP OUT
	2:00 - 3:30	1.50	DRLPRO	19	A	X		SHORT TRIP 10 STANDS ,10K TO 40K DRAG F/ 4369' TO 4133' ,NO PROBLEMS ON TIH
	3:30 - 4:30	1.00	DRLPRO	19	A	X		CIRC BOTTOMS UP,PUMP PILL
	4:30 - 7:30	3.00	DRLPRO	19	A	X		WIPER TRIP TO CSG SHOE ,10K TO 40K DRAG THROUGHOUT THE GREEN RIVER
	7:30 - 8:30	1.00	DRLPRO	09	A	P		CIRC ,CUT & SLIP 235' DRILLING LINE
	8:30 - 9:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	9:00 - 10:30	1.50	DRLPRO	19	A	X		TIH TAG TOP OF FISH @ 4667' 3' FILL ,NO HOLE PROBLEMS
	10:30 - 11:30	1.00	DRLPRO	19	A	X		CIRC BOTTOMS UP ,PUMP PILL
	11:30 - 15:00	3.50	DRLPRO	19	A	X		TOOH L/D BIT & BIT SUB
	15:00 - 21:00	6.00	DRLPRO	19	A	X		P/U SCREW IN SUB,CIRC SUB,BUMPER SUB,JARS,RUN 11 DCS,P/U ENERGIZER, TIH
	21:00 - 21:30	0.50	DRLPRO	19	A	X		WASH 63' TO TOP OF FISH @ 4667',SCREW INTO FISH,P/U SURFACE JARS
	21:30 - 0:00	2.50	DRLPRO	19	A	X		JAR DOWN ON FISH ,SURFACE JARS UNLOADING 75K TO 90K OVER STRING WEGHT ,NO MOVEMENT
5/29/2010	0:00 - 1:00	1.00	DRLPRO	19	A	X		JARRING DOWN ON FISH ,SURFACE JARS UNLOADING 75K TO 90K OVER STRING WEIGHT
	1:00 - 1:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK
	1:30 - 4:00	2.50	DRLPRO	19	A	X		JARRING DOWN ON FISH
	4:00 - 4:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK
	4:30 - 6:00	1.50	DRLPRO	19	A	X		JARRING UP ON FISH 150K OVER STRING WEIGHT
	6:00 - 6:30	0.50	DRLPRO	19	A	X		VISUALLY INSPECT DERRICK DAYLIGHT
	6:30 - 11:00	4.50	DRLPRO	19	A	X		JAR ON FISH ALTERNATING 5 TIMES UP ,5 TIMES DOWN ,NO MOVEMENT
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 13:00	1.50	DRLPRO	19	A	X		JAR ON FISH ALTERNATING ,5 TIMES UP ,5 TIMES DOWN ,NO MOVEMENT
	13:00 - 18:00	5.00	DRLPRO	19	A	X		SAFETY MEETING W/ DCT WIRELINE , UNSUCSESFUL AT BACKING OFF ON FIRST 2 ATTEMPTS @ 4667'
	18:00 - 19:00	1.00	DRLPRO	19	A	X		RUN IN W/ STRING SHOT # 3 ATTEMPT TO BACK OFF @ BOTTOM OF CIRC SUB @ 4664' UNSUCCESFUL
	19:00 - 19:30	0.50	DRLPRO	19	A	X		CIRC THROUGH CIRC SUB ,REDRESS STRING SHOT
	19:30 - 21:30	2.00	DRLPRO	19	A	X		RUN IN W/ STRING SHOT #4 ,PUT 3 1/4 ROUNDS LEFT TORQUE IN DRILLSTRING AND BACKED OFF WITHOUT FIRING SHOT,POOH R/D DCT WIRELINE (SHOULD BE BACKED OFF @ SCREWIN SUB)
	21:30 - 0:00	2.50	DRLPRO	19	A	X		TOOH TO FISHING TOOLS
5/30/2010	0:00 - 1:30	1.50	DRLPRO	19	A	X		TOOH ,L/D ENERGIZER,JARS,BUMPER SUB,CIRC,SUB,JARS
	1:30 - 6:00	4.50	DRLPRO	06	E	X		P/U R/R TRI-CONE BIT,BIT SUB TIH TAG @ 3776'
	6:00 - 7:30	1.50	DRLPRO	03	A	X		WASH & REAM F/ 3776' TO 3966' L/D 5 JTS RUN 2 STANDS
	7:30 - 9:30	2.00	DRLPRO	03	A	X		WASH & REAM F/ 3966' TO 4113' L/D 10 JTS RUN 5 STANDS

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 11:30	2.00	DRLPRO	03	A	X		WASH & REAM F/ 4113' TO 4554' ,RAISE MUD WT TO 12.9
	11:30 - 13:00	1.50	DRLPRO	05	C	X		CIRC & COND ,PUMP PILL
	13:00 - 16:00	3.00	DRLPRO	06	A	X		TOOH ,PULLED TIGHT F/ 4480' TO 3825' 20K TO 50K OVER STRING WT
	16:00 - 19:00	3.00	DRLPRO	06	C	X		TIH W/ OPEN ENDED DRILL PIPE TO 4453'
	19:00 - 21:30	2.50	DRLPRO	05	A	X		CIRC & COND , WAIT ON CEMENTERS,SAFETY MEETING W/ BJ SERVICES
	21:30 - 22:30	1.00	DRLPRO	17	A	X		HOOK UP BJ,& SET KICK OFF PLUG, PUMP 30 BBLS WATER,269 SX, 17.5 PPG,.94 YLD CLASS G CEMENT ,DISPLACE W/ 8.5 BBLS WATER & 44 BBLS DRILLING MUD, TOP OF PLUG 3812' ,R/D BJ SERVICES
	22:30 - 23:30	1.00	DRLPRO	06	C	X		TOOH TO 3193' ,620' ABOVE PLUG
	23:30 - 0:00	0.50	DRLPRO	05	G	X		CIRC & R/U KIMZEY
5/31/2010	0:00 - 6:00	6.00	DRLPRO	06	A	X		L/D 100 JOINTS DRILL PIPE & 10 DRILL COLLARS, R/D KIMZEY
	6:00 - 11:30	5.50	DRLPRO	06	A	X		P/U GX-28 BIT ,2.12 DEG .16 GPR MOTOR ,DIRECTIONAL TOOLS ORIENTATE MWD ,TIH TO SHOE, FILL PIPE
	11:30 - 14:30	3.00	DRLPRO	13	A	X		WAIT ON CEMENT
	14:30 - 15:00	0.50	DRLPRO	07	A	X		RIG SERVICE
	15:00 - 16:30	1.50	DRLPRO	06	A	X		TIH TAG @ 3154'
	16:30 - 18:00	1.50	DRLPRO	03	A	X		WASH & REAM F/ 3154 TO 3353' HOLE SLOUGHING & TRYING TO PACK OFF, GETTING BACK ALOT OF SHALES ,MUD WT 11.8
	18:00 - 19:00	1.00	DRLPRO	06	A	X		LAY DOWN 16 JOINTS & RUN 8 STANDS
	19:00 - 22:30	3.50	DRLPRO	03	A	X		WASH & REAM F/ 3353' TO 3852' , HOLE SLOUGHING, GETTING BACK ALOT OF BIG SHALES ,MUD WT 12.2
	22:30 - 0:00	1.50	DRLPRO	02	B	X		DRILL CEMENT F/ 3852' TO 3917'
6/1/2010	0:00 - 1:30	1.50	DRLPRO	02	B	X		DRILL CEMENT F/ 3917' TO 3953'
	1:30 - 8:00	6.50	DRLPRO	02	G	X		TIME DRILL F/ 3953' TO 3963'
	8:00 - 8:30	0.50	DRLPRO	02	B	X		SLIDE F/ 3963' TO 3973'
	8:30 - 9:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	9:00 - 9:30	0.50	DRLPRO	02	B	X		SLIDE F/ 3973' TO 3978' ,ROTATE F/ 3978' TO 3988'
	9:30 - 10:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	10:00 - 10:30	0.50	DRLPRO	02	B	X		SLIDE 3988' TO 3993' ,ROTATE 3993' TO 4003'
	10:30 - 11:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 95% FORMATION ,5% CEMENT
	11:00 - 11:30	0.50	DRLPRO	02	B	X		SLIDE F/ 4003' TO 4008' ,ROTATE F/ 4008' TO 4048'
	11:30 - 12:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 20 % FORMATION ,80 % CEMENT
	12:00 - 13:00	1.00	DRLPRO	02	B	X		ROTATE F/ 4048' TO 4058" HARD DRILLING
	13:00 - 20:00	7.00	DRLPRO	02	G	X		TIME DRILLING F/ 4058' TO 4068'
	20:00 - 20:30	0.50	DRLPRO	05	E	X		CIRC BTMS UP 40% FORMATION ,60% CEMENT
	20:30 - 21:30	1.00	DRLPRO	02	B	X		SLIDE F/ 4068' TO 4073'
	21:30 - 22:00	0.50	DRLPRO	05	E	X		CIRC BTMS UP 70% FORMATION ,30% CEMENT
	22:00 - 23:00	1.00	DRLPRO	02	B	X		ROTATE 4073' TO 4088' WOB 25-28 ,RPM 40-44 ,SPM 120 GPM 454 ,UP/SO/ROT 110-75-90 ,ON/OFF 2200-2000 ,DIFF 230 ,WT 12.5 ,VIS 49 ,95% FORMATION ,5% CEMENT
	23:00 - 0:00	1.00	DRLPRO	02	B	X		SLIDE F/ 4088' TO 4093" ,FORMATION 100% ,TRACE CEMENT
6/2/2010	0:00 - 6:00	6.00	DRLPRO	02	B	X		DRILL & SLIDE F/ 4093' TO 4143' WOB 25-28 ,RPM 40 ,MMRPM 72,SPM 120 ,GPM 454 ,UP/SO/ROT 125-85-92 ,ON/OFF 2230-2200 ,DIFF 230 ,SURVEY @ 4082' 3.65 INC ,138.42 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 6:30	0.50	DRLPRO	07	A	X		RIG SERVICE
	6:30 - 7:00	0.50	DRLPRO	05	C	X		CIRC ,BUILD & PUMP PILL
	7:00 - 11:00	4.00	DRLPRO	06	A	X		TFNB
	11:00 - 12:00	1.00	DRLPRO	06	A	X		P/U Q506F ,ADJUST MOTOR TO 1.5 DEG, SCRIBE MWD , TIH TO SHOE
	12:00 - 13:00	1.00	DRLPRO	09	A	X		FILL PIPE , SLIP & CUT DRILL LINE
	13:00 - 14:00	1.00	DRLPRO	06	A	X		FINISH TIH
	14:00 - 14:30	0.50	DRLPRO	03	D	X		WASH 40' TO BTM ,8' FILL
	14:30 - 0:00	9.50	DRLPRO	02	B	X		DRILL F/ 4143' TO 4639' ,(496' @ 52.2' HR) WOB 17-20 ,RPM 45-60,MMRPM 72 ,SPM 120 ,GPM 454 ,UP/SO/ROT 120- 90- 105, ON/OFF 2350-1850 ,DIFF 350-550 ,LAST SURVEY @ 4518' 4.83 INC ,136.57 AZM
6/3/2010	0:00 - 8:00	8.00	DRLPRO	02	B	X		DRILL & SURVEY F/ 4639' TO 4997' (358' @ 44.7' HR) WOB 20-22 ,RPM 50=60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 125-80-115, ON/OFF 2200-2000 ,DIFF 150-300 ,LAST SURVEY @ 4714' 4.8 INC 138.32 AZM
	8:00 - 8:30	0.50	DRLPRO	07	A	X		RIG SERVICE
	8:30 - 0:00	15.50	DRLPRO	02	B	X		DRILL,SLIDE & SURVEY F/ 4997' TO 5533' (536' @ 34.5' HR) WOB 20-22 ,RPM 45-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 135-100-116 ,ON/OFF 2550-2250 ,DIFF 200-550 ,(SLIDES 5251-5261 ,5285-5295 ,5316-5326 ,5350-5360) LAST SURVEY @ 5564' 1.65 INC ,167.83 AZM
6/4/2010	0:00 - 17:30	17.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 5533' TO 6197' (664' @ 37.9' HR) WOB 22-25 ,RPM 50-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 155-80-130 ,ON/OFF 2350-2150 ,DIFF 100-300 ,LAST SURVEY @ 5880 1.84 INC ,181.05 AZM
	17:30 - 18:00	0.50	DRLPRO	07	A	X		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	B	X		DRILL& SURVEY F/ 6197' TO 6370' (173' @ 28.3' HR) WOB 22-25 ,RPM 45-60 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 150-105-127 ,ON/OFF 2315/2150 ,DIFF 100-300 ,LAST SURVEY @ 6199' 2.02 INC ,171.99 AZM
6/5/2010	0:00 - 10:00	10.00	DRLPRO	02	B	X		DRILL & SURVEY F/ 6370' TO 6671' (301' @ 30.1' HR) WOB 22-24 ,RTPM 50 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 160-90-135 ,ON/OFF 2400-2200,DIFF 100-275 ,HAD A FEW TIGHT CONNECTIONS & HOLE TRYING TO PACK OFF
	10:00 - 13:00	3.00	DRLPRO	06	E	X		PUMP PILL ,WIPER TRIP TO 2650' , WORK THROUGH TIGHT SPOTS @ 6535' TO 6530' ,5965' TO 5955' ,5681' TO 5676 ,'5344' TO 5329' ,4669' TO 4656' 20K TO 75K DRAG
	13:00 - 14:00	1.00	DRLPRO	06	E	X		TIH TAG @ 5070'
	14:00 - 15:30	1.50	DRLPRO	03	A	X		WASH & REAM FROM 5070' TO 5132' & 5648' TO 5712'
	15:30 - 16:00	0.50	DRLPRO	06	E	X		FINISH TIH
	16:00 - 17:00	1.00	DRLPRO	02	B	X		DRILL F/ 6671' TO 6703'
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 6703' TO 6890' (187' @ 28.7' HR) WOB 22-25 ,RPM 45-65 ,MMRPM 69 ,SPM 115 ,GPM 435 ,UP/SO/ROT 155-110-135 ,ON/OFF 2460-2225 ,DIFF 100-250 ,LAST SURVEY @ 6829' 2.02 INC ,178.67 AZM

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/6/2010	0:00 - 15:30	15.50	DRLPRO	02	B	X		DRILL & SURVEY F/ 6890' TO 7241' (351' @ 22.6' HR) WOB 22-28 ,RPM 45-60 ,MM 69 ,SPM 120 ,GPM 435 ,UP/SO/ROT 155-120-142 ,ON/OFF 2500-2300 ,DIFF 100-235 BIT BALLING ,PUMPING NUT PLUG SWEEPS
	15:30 - 16:00	0.50	DRLPRO	05	C	P		CIRC OUT SWEEP ,PUMP PILL
	16:00 - 21:00	5.00	DRLPRO	06	A	P		TFNB , L/D BIT & MOTOR , (NO PROBLEMS)
	21:00 - 0:00	3.00	DRLPRO	06	A	P		P/U NEW Q506F ,1.5 DEG .16 GPR MOTOR ,SCRIBE MWD ,TIH, FILL PIPE @ SHOE
6/7/2010	0:00 - 3:00	3.00	DRLPRO	06	A	P		FINISH TIH ,FILL PIPE HALF WAY ,WASH 30' TO BTM
	3:00 - 16:30	13.50	DRLPRO	02	B	P		DRILL & SURVEY F/ 7241' TO 7620' (379' @ 28' HR) WOB 25-28 ,RPM 45-55 ,MM RPM 67, SPM 110 ,GPM 416 ,UP/SO/ROT 165-125-147 ,ON/OFF 2400-2250 ,DIFF 100-250 ,PUMPING NUT SHELL SWEEPS
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 7620' TO 7810' (190' @ 27.1' HR) WOB 22-28 ,RPM 45-60 ,MMRPM 67 ,SPM 110 ,GPM 416 ,UP/SO/ROT 165-125-147 ,ON/OFF 2500-2275 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
6/8/2010	0:00 - 16:00	16.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 7810' TO 8284' (474' @ 29.6' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 110 ,GPM 416 ,UP/SO/ROT 177-135-156 ,ON/OFF 2483-2298 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILL & SURVEY F/ 8284' - 8505' (221' @ 29.5' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 180-138-163 ,ON/OFF 2534-2381 ,DIFF 150-300 ,MW 12.8 ,VIS 45 ,PUMP NUT SHELL SWEEPS
6/9/2010	0:00 - 13:00	13.00	DRLPRO	02	B	P		DRILL & SURVEY F/ 8505' - 8852' (347' @ 26.7' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 187-140-166 ,ON/OFF 2630-2365 ,DIFF 150-300 ,MW 12.8 ,VIS 43 ,PUMP NUT SHELL SWEEPS
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:30 - 22:00	8.50	DRLPRO	02	B	P		DRILL & SURVEY F/8852' - 9100' (248' @ 29.2' HR) WOB 25-28 ,RPM 45-60 ,MMRPM 67 ,SPM 111 ,GPM 420 ,UP/SO/ROT 190-145-166 ,ON/OFF 2630-2365 ,DIFF 150-300 ,MW 12.8 ,VIS 46 ,PUMP NUT SHELL SWEEPS
	22:00 - 23:30	1.50	DRLPRO	05	C	P		CIRCULATED TO SHORT TRIP
	23:30 - 0:00	0.50	DRLPRO	06	E	P		SHORT TRIP
6/10/2010	0:00 - 3:00	3.00	DRLPRO	06	E	P		FINISHED WIPER TRIP 50 STANDS TO 5841' NO FILL, NO EXCESS DRAG
	3:00 - 4:30	1.50	DRLPRO	05	C	P		CIRCULATED FOR LOGS
	4:30 - 10:30	6.00	DRLPRO	06	B	P		TOH F/ LOGS
	10:30 - 12:00	1.50	DRLPRO	06	B	P		LD THE DIRECTIONAL TOOLS AND MUD MOTOR
	12:00 - 20:30	8.50	DRLPRO	11	D	P		RIGGED UP BAKER ATLAS, HELD A S/M, RAN TRIPLE COMBO LOG F/ TD TO SURFACE (1813'). LOGGERS TD 9098' 7285' TOTAL LOGGED.
	20:30 - 0:00	3.50	DRLPRO	06	E	P		TIH TO LDDP
6/11/2010	0:00 - 1:30	1.50	DRLPRO	06	E	P		FINISHED TIH AND PU 4 JTS TO MAKE UP FOR THE MUD MOTOR AND MWD ASSEMBLY. NO FILL

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:30 - 3:00	1.50	DRLPRO	05	C	P		CIRCULATED W/ 12.9 WT 46 VIS. RU THE LAYDOWN CREW, HELD A SAFETY MEETING AND PUMP PILL.
	3:00 - 10:00	7.00	DRLPRO	06	A	P		LDDP
	10:00 - 11:00	1.00	DRLPRO	01	E	P		BREAK AND LD THE KELLY, PULL THE ROTATING RUBBER
	11:00 - 11:30	0.50	DRLPRO	06	A	P		LD THE BHA
	11:30 - 12:30	1.00	DRLPRO	12	A	P		PULLED THE WEAR BUSHING. RU KIMSEY CASING CREW AND HELD A SAFETY MEETING
	12:30 - 19:30	7.00	DRLPRO	12	C	P		RAN 215 JTS OF 4 1/2, 11.6#, I-80, BTC CSG LANDED @ 9090.61' SHOE/9089.11, FC/9045.52, MARKER /3815.08'. MANDRELL SET @ 18' KB
	19:30 - 21:00	1.50	DRLPRO	05	D	P		CIRCULATE RD KIMSEY AND RU BJ HOLD A SM TO CEMENT
	21:00 - 23:30	2.50	DRLPRO	12	E	P		HELD A SM. PRESSURE TESTED TO 4000 PSI. PUMPED 40 BBL. OF WATER SPACER/ LEAD CMT; 500 SKS PREM. LITE II, 12.9 PPG, 1.81 YLD, 9.14 GPS H2O,.1% BWOC SODIUM METASILICATE, .05 PPS STATIC FREE + 0.4% BWOC R-3 + 0.25 PPS CELLOFLAKE + 5PPS KOL SEAL + 6% BWOC BENTONITE. TAIL CEMENT: 1647 SKS OF 50/50 POZ CLASS G CEMENT, 14.3 PPG, 1.31 YLD, 5.91 GPS H2O, .05 PPS STATIC FREE + 10% BWOW SODIUM CHLORIDE + .2% BWOC R-3 + 0.002 GPS FP-6L + 2% BWOC BENTONITE/ DIPLACED WITH 139.9 BBL. OF CLAYTREAT H2O+ 1GL OF MAGNACIDE. FINAL LIFT PSI 2800 PSI. PLUG BUMPED W/ 3500 PSI. 1.5 BBL WASHBACK. PD @ 23:15 6/11/2010. 40 BBL. OF CEMENT TO SURFACE. CLEAN UP RD CEMENTERS
	23:30 - 0:00	0.50	DRLPRO	14	A	P		ND BOP
6/12/2010	0:00 - 3:30	3.50	DRLPRO	01	E	P		ND THE BOP AND CLEAN PITS. RIG RELEASED @ 03:30 6/12/2010

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 2/22/2010	End Date: 6/12/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	3:30 - 3:30	0.00	DRLPRO					CONDUCTOR CASING: Cond. Depth set: Cement sx used: SPUD DATE/TIME: 2/22/2010 14:00 SURFACE HOLE: Surface From depth:14 Surface To depth: 1,854 Total SURFACE hours: 20.00 Surface Casing size:8 2/3 # of casing joints ran: 41 Casing set MD:1,817.0 # sx of cement:130/170/ top out 125 Cement blend (ppg:)11.1/15.8/ top out 15.8 Cement yield (ft3/sk): 3.82/1.15/ top out 1.15 # of bbls to surface: Describe cement issues: 0 bbl to surface top out w/ 125 sx Describe hole issues: PRODUCTION: Rig Move/Skid start date/time: 5/19/2010 10:00 Rig Move/Skid finish date/time:5/19/2010 15:30 Total MOVE hours: 5.5 Prod Rig Spud date/time: 5/20/2010 18:00 Rig Release date/time: 6/12/2010 3:30 Total SPUD to RR hours:537.5 Planned depth MD 9,092 Planned depth TVD 9,092 Actual MD: 9,100 Actual TVD: 9,097 Open Wells $: $1,451,307 AFE $: $729,982 Open wells $/ft:$157.41 PRODUCTION HOLE: Prod. From depth: 1,854 Prod. To depth:9,100 Total PROD hours: 246 Log Depth: 9098 Production Casing size: 4 1/2 # of casing joints ran: 215 Casing set MD:9,090.6 # sx of cement:LEAD/500 TAIL/1647 Cement blend (ppg:)LEAD/12.9 TAIL 14.3 Cement yield (ft3/sk): LEAD/1.81 TAIL/1.31 Est. TOC (Lead & Tail) or 2 Stage : LEAD/18' TAIL/1843' Describe cement issues: Describe hole issues: DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 6/18/2010	End Date: 6/29/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/21/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING DOWN & ROADING EQUIP.
	7:30 - 10:00	2.50	COMP	30	A	P		RIG DWN OFF NBU 922-29NT, MIRU.
	10:00 - 17:00	7.00	COMP	31	I	P		ND WH NU BOPS, RU FLOOR & TBG EQUIP, TALLY & PU 37/8 BIT, BIT SUB, & 224 JTS 23/8 J-55 TBG OFF FLOAT. EOT @ 7072 ' SWI SDFN
6/22/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, TRIPPING TBG, & TESTING CSG.
	7:00 - 15:00	8.00	COMP	31	I	P		O PSI ON WELL, POOH W/ 224 JTS 23/8 J-55 L/D BIT. ND BOPS NU FRAC VALVES, RU B&C TEST CSG & VALVES TO 7,000# PSI. RD B&C RU CUTTERS. (STG 1) RIH W/ 31/8 EXP GUNS, .23 GRM .36" HOLES, 90 DEG PHASING, PERF MV 8592'-8595' 4 SPF 12 HLS, BREAK DWN W / RIG PUMP @ 3800 PSI @ .5 BPM, PERF 8450'-8452' 4 SPF 8 HLS, 8423'-8428' 4 SPF 20 HLS, 40 HOLES. POOH SWI PREP TO FRAC IN AM.
6/23/2010	7:00 - 15:00	8.00	COMP	46		P		WAIT ON FRAC CREW
6/24/2010	7:00 - 15:00	8.00	COMP	46	E	P		WAIT ON FRAC CREW
6/25/2010	7:00 - 15:00	8.00	COMP	46	E	P		WAIT ON FRAC CREW.
6/28/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ SUPERIOR & CUTTERS
	7:30 - 8:38	1.13	COMP	36	E	P		(STG 1) PRIME PUMPS, TEST LINES TO 8,000# PSI. WHP 1090 PSI, BROKE @ 5,900 PSI @ 48 BPM, STEP DOWN TEST, 6 TRKS, @ 50 BPM STABILIZED 6,000 PSI, 4 TRKS, 31 BPM @ STABILIZED 4700 PSI ,3 TRKS 25.5 BPM @ STABILIZED 4,000 PSI, 2 TRKS 16 BPM @ STABILIZED PSI, 3860. ISIP 3340 PSI, FG .78. PUMP 100 BBLS @ 49.8 BPM @ 5216 PSI = 100% PERFS OPEN. MR 6,383 PSI, MR 51.5 BPM, AP 5792 PSI, AR 50.7 BPM, ISIP 3637 PSI, FG .86 NPI 297 PSI, PMPD 1133 BBLS OF SW & 23,354 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 28,354 LBS.
	8:38 - 10:01	1.38	COMP	36	E	P		(STG 2) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING SET 8 K HAL CBP @ 7806' & PERF 7702'-7706' 4 SPF 16 HLS, WHP 2347 PSI, BROKE @ 5,807 PSI @ 2 BPM. PERF 7636'-7640' 4 SPF 16 HLS, 7612'-7614' 4 SPF 8 HLS, 40 HOLES. WHP 695 PSI, BROKE @ 4546 PSI. 1 BPM. STEP DOWN TEST, 6 TRKS, @ 50.3 BPM STABILIZED 5,159 PSI, 4 TRKS, 33 BPM @ STABILIZED 3,981 PSI ,3 TRKS 25 BPM @ STABILIZED 3,527 PSI, 2 TRKS 18 BPM @ STABILIZED PSI, 3,295. ISIP 2673 PSI, FG .78. PUMP 100 BBLS @ 50.5 BPM @ 5,830 PSI = 69% PERFS OPEN. MR 5,549 PSI, MR 49.7 BPM, AP 5,129 PSI, AR 49.2 BPM, ISIP 3031 PSI, FG .83 NPI 358 PSI, PMPD 858 BBLS OF SW & 20,637 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 25,637 LBS.

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 6/18/2010	End Date: 6/29/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:01 - 11:58	1.95	COMP	36	E	P		(STG 3) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING SET 8 K HAL CBP @ 7558' & PERF 7456'-7458' 4 SPF 8 HLS, WHP 1745 PSI, BROKE @ 2,735 PSI @ 4.7 BPM. PERF 7416'7417' 4 SPF 4 HLS, 7382'-7385 4 SPF 12 HLS, 7290'-7294 4 SPF 16 HLS, 40 HOLES WHP 1200 PSI, BROKE @ 2180 PSI. 41 BPM STEP DOWN TEST, 6 TRKS, 50.5 BPM @ STABILIZED 5,541 PSI, 4 TRKS, 33.3 BPM @ STABILIZED 4,085 PSI ,3 TRKS 25.8 BPM @ STABILIZED 3,505 PSI, 2 TRKS 18.1 BPM @ STABILIZED PSI, 3,350. ISIP 2269 PSI, FG .75. PUMP 100 BBLS @ 50.8 BPM @ 4,960 PSI = 94% PERFS OPEN. MR 5,623 PSI, MR 53.3 BPM, AP 4,700 PSI, AR 50.9 BPM, ISIP 2907 PSI, FG .83 NPI 638 PSI, PMPD 1924 BBLS OF SW & 69,526 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 74,526 LBS. (THIS STAGE HAS TRACER)
	11:58 - 13:20	1.37	COMP	36	E	P		(STG 4) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING SET 8 K HAL CBP @ 6580' & PERF 6476'-6480' 4 SPF 16 HLS, WHP 1750 PSI, BROKE @ 3,387 PSI @ 4.7 BPM. PERF 6242'-6244' 4 SPF 8 HLS, 6212'-6214' 4 SPF 8 HLS, 32 HOLES. WHP 701 PSI, BROKE PSI. NO BREAK SEEN, STEP DOWN TEST, 6 TRKS, 50.5 BPM @ STABILIZED 5,560 PSI, 4 TRKS, 33.3 BPM @ STABILIZED 4,481 PSI ,3 TRKS 25.7 BPM @ STABILIZED 4,070 PSI, 2 TRKS 17.9 BPM @ STABILIZED PSI, 3,620. ISIP 3319 PSI, FG .96. PUMP 100 BBLS @ 49 BPM @ 5,528 PSI = 100% PERFS OPEN. MR 6,500 PSI, MR 53.2 BPM, AP 5,711 PSI, AR 49.6 BPM, ISIP 2948 PSI, FG .90 NPI -371 PSI, PMPD 819 BBLS OF SW & 24,536 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 29,536 LBS. (THIS STAGE HAS TRACER)
	13:20 - 14:56	1.60	COMP	36	E	P		(STG 5) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING SET 8 K HAL CBP @ 6069' & PERF 5959'-5969 4 SPF 40 HOLES. WHP 925 PSI, BROKE @ 2736 PSI @ 4.6 BPM. STEP DOWN TEST, 6 TRKS, 49.8 BPM @ STABILIZED 3,380 PSI, 4 TRKS, 33.6 BPM @ STABILIZED 2,950 PSI ,3 TRKS 25.9 BPM @ STABILIZED 2,841 PSI, 2 TRKS 17.9 BPM @ STABILIZED PSI, 2,603. ISIP 2280 PSI, FG .82. PUMP 100 BBLS @ 49 BPM @ 4,522 PSI = 85% PERFS OPEN. MR 5,135 PSI, MR 53. BPM, AP 4,306 PSI, AR 50.2 BPM, ISIP 2527 PSI, FG .86 NPI 247 PSI, PMPD 2206 BBLS OF SW & 96,637 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 101,637 LBS.

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 6/18/2010	End Date: 6/29/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:56 - 16:15	1.32	COMP	36	E	P		(STG 6) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING SET 8 K HAL CBP @ 5856' & PERF 5750'-5756 4 SPF 24 HOLES. WHP 80 PSI, BROKE @ 3921 PSI @ 4.6 BPM. STEP DOWN TEST, 6 TRKS, 44 BPM @ STABILIZED 4,800 PSI, 4 TRKS, 29.7 BPM @ STABILIZED 3,550 PSI ,3 TRKS 20.2 BPM @ STABILIZED 3,030 PSI, 2 TRKS 9.9 BPM @ STABILIZED PSI, 2,550. ISIP 2443 PSI, FG .86. PUMP 100 BBLS @ 46 BPM @ 4,446 PSI = 91% PERFS OPEN. MR 4,966 PSI, MR 47.2 BPM, AP 4,584 PSI, AR 46.9 BPM, ISIP 2562 PSI, FG .88 NPI 119 PSI, PMPD 754 BBLS OF SW & 24,451 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN TOTAL PROP 29,451 LBS. TOTAL WTR 7966 BBLS TOTAL SAND 289,141 LBS 134 GALS BIOCIDE 519 GAL SCALE INH.
	16:15 - 18:30	2.25	COMP	34	I	P		(KILL PLUG) RIH W/ 4 1/2 8K CBP & SET @ 5700' POOH RD CUTTERS & SUPERIOR, ND FRAC VALVES NU BOPS, SWI SDFN.
6/29/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, TRIPPING TBG & DRLG PLUGS.

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 6/18/2010	End Date: 6/29/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 17:30	10.00	COMP	31	I	P		PU RIH W/ 3 7/8 BIT, POBS, 1.875 X/N & 180 JTS 23/8 J-55, TAG UP @ 5680' RU DRLG EQUIP, BROKE CIRC CONVENTIONAL, TEST BOPS TO 3,000# PSI OK. RIH C/O 20' SAND TAG 1ST PLUG @ 5700' DRL PLG IN 8 MIN 400 # PSI INCREASE RIH. C/O 100' SAND TAG 2ND PLUG @ 5856' DRL PLG IN 5 MIN 200 # PSI INCREASE RIH. C/O 100' SAND TAG 3RD PLUG @ 6069' DRL PLG IN 7 MIN 300 # PSI INCREASE RIH. C/O 100' SAND TAG 4TH PLUG @ 6580' DRL PLG IN 30 MIN 200 # PSI INCREASE RIH. C/O 100' SAND TAG 5TH PLUG @ 7556' DRL PLG IN 13 MIN 300 # PSI INCREASE RIH. C/O 100' SAND TAG 6TH PLUG @ 7806' DRL PLG IN 11 MIN 400 # PSI INCREASE RIH. TO 8711' CIRC CLEAN, RD SWIVEL, L/D 98 JTS. LAND TBG ON 178 JTS 23/8 J-55, ND BOPS NU WH, PMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL, TURN WELL OVER TO FB CREW. KB = 18' 7 1/16 5K HANGER = .83' 178 JTS 23/8 J-55 = 5609.08' POBS & 1.875 X/N = 2.20' EOT @ 5630.11' (LANDED HIGH FOR TRACER LOG) 292 JTS HAULED OUT 178 LANDED 114 TO RETURN TWTR = 8386 BBLS TWR = 1000 BBLS TWLTR =7386 BBLS
6/30/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 700#, TP 150#, OPEN/64" CK, 90 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 2095 BBLS LEFT TO RECOVER: 6291
7/1/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 900#, TP 300#, 32/64" CK, 23 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 3380 BBLS LEFT TO RECOVER: 5006
	10:30 -							WELL TURNED TO SALES @1030 HR ON 7/1/2010 - 1300 MCFD, 552 BWPD, CP 772#, FTP 436#, CK 32/60"
7/2/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 750#, TP 275#, 32/64" CK, 22 BWPH, MED SAND, 800TH GAS TTL BBLS RECOVERED: 3928 BBLS LEFT TO RECOVER: 4458
7/3/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 675#, TP 300#, 32/64" CK, 17 BWPH, MED SAND, 900TH GAS TTL BBLS RECOVERED: 4392 BBLS LEFT TO RECOVER: 3994

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010
Project: UTAH-UINTAH	Site: STATE 1021-32O	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 6/18/2010	End Date: 6/29/2010
Active Datum: RKB @5,340.01ft (above Mean Sea Leve	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/4/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 700#, TP 350#, 32/64" CK, 13 BWPH, LIGHT SAND, 1.2 GAS TTL BBLS RECOVERED: 4757 BBLS LEFT TO RECOVER: 3629
7/5/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 750#, TP 400#, 32/64" CK, 7 BWPH, TRACE SAND, 1.6 GAS TTL BBLS RECOVERED: 5002 BBLS LEFT TO RECOVER: 3384

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21577

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: STATE 1021-32O

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047391280000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/28/2011	☐ ACIDIZE	☐ ALTER CASING	✓ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Wellhead Repair

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Approved by the Utah Division of Oil, Gas and Mining

Date: 07/11/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 6/28/2011

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WORKORDER #: 88119292

Name: STATE 1021-320 6/23/2011
Surface Location: SWSE Sec. 32, T10S, R21E
Uintah County, UT

API: 4304739128 **LEASE#:** ML-21577

ELEVATIONS: 5322' GL 5340' KB

TOTAL DEPTH: 9100' **PBTD:** 9047'

SURFACE CASING: 8 5/8", 28# J-55 @ 1818'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 9090'
TOC @ 152' per CBL

PERFORATIONS: Wasatch 5750' – 6480'
Mesaverde 7290' – 8595'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 28# J-55	8.097	1370	2950	2.6223	0.3505	0.0624
Annular Capacities						
2.375" tbg. X 4 ½" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

821' Green River
1551' Mahogany
4057' Wasatch
6880' Mesaverde

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STATE 1021-32O– WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~5700'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

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CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.

2. POOH, LD cutters and casing.

3. PU 7 3/8" overshot with 4 ½" right hand standard wicker grapple, 1 - 4 ¾" drill collar with 3 ½" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.

4. TIH w/ skirted mill and dress off the fish top for approximately ½ hour. TOOH.

5. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.

6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.

7. Install slips. Land casing w/ 80,000# tension.

8. Cut-off and dress 4 ½" casing stub.

9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5650'. Clean out to PBTD (9047').

10. POOH, land tbg and pump off POBS.

11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.

2. POOH, LD cutters and casing.

3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.

4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.

5. Back-off casing, POOH.

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6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ±7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.

7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.

8. Install slips. Land casing w/ 80,000# tension.

9. Cut-off and dress 4 ½" casing stub.

10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5650'. Clean out to PBTD (9047').

11. POOH, land tbg and pump off POBS.

12. NUWH, RDMO. Turn well over to production ops.

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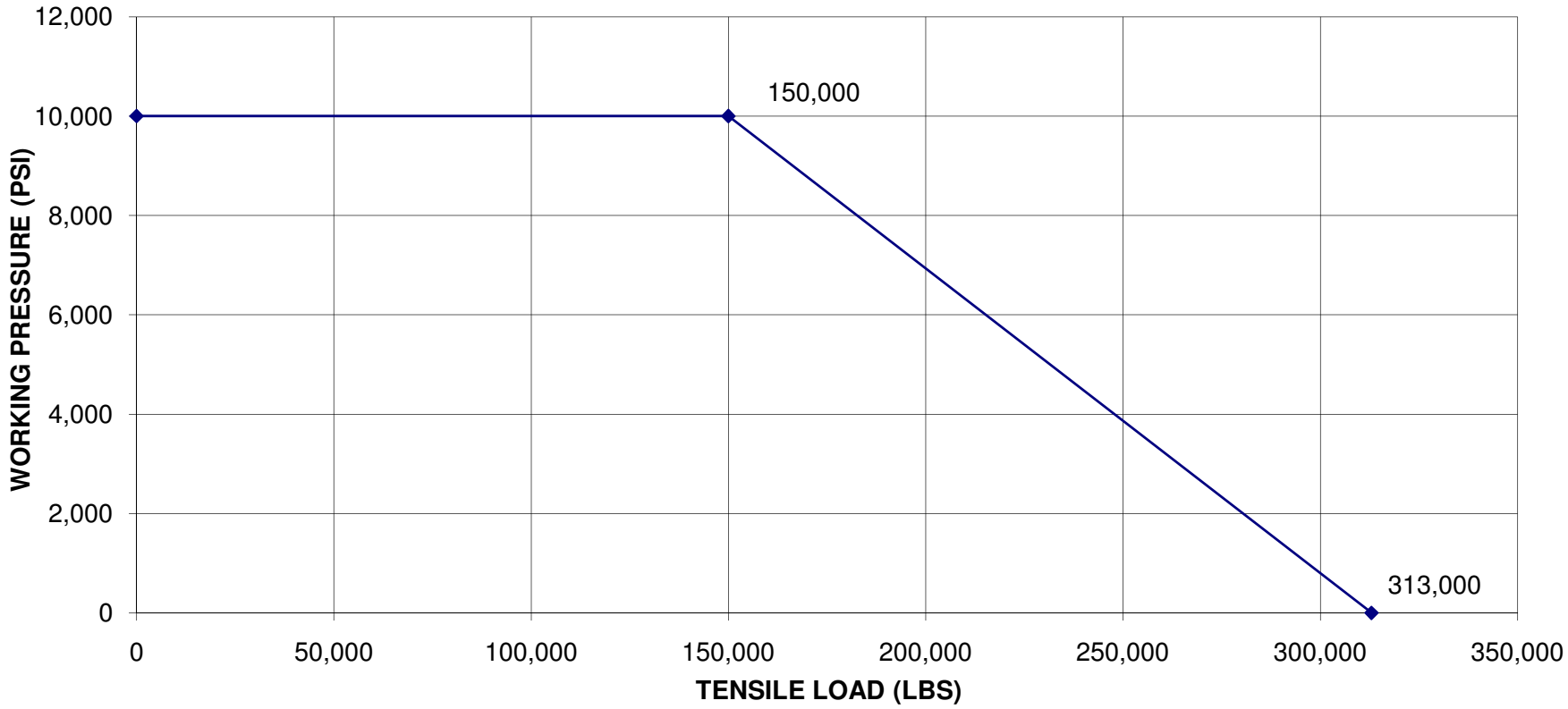
STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

Logan High Pressure Casing Patches
Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.

2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type “L” Packers.

3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.

4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.

5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.

6. Install the Cutlipped Guide into the lower end of the Bowl.

7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.

8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

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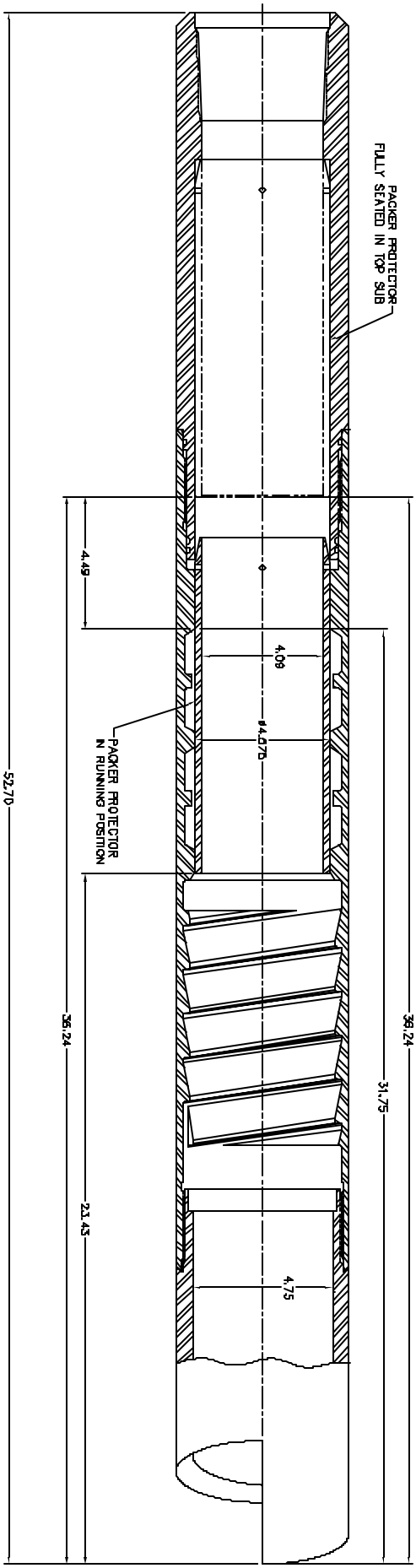

510L-005-001 4-1/2" LOGAN HP CASING PATCH

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	NBU REVISION						UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
E	Various	2900	3/13/2012			2/1/2012	

Comments: MOVE THE ATTACHED WELLS INTO THE NATURAL BUTTES UNIT REVISION EFFECTIVE 02/01/2012. 72 wells 5/31/2012

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
5/30/2012
Date

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MAY 31 2012
Div. of Oil, Gas & Mining

(5/2000)

Entity Action Form Attachment for wells moved into the Natural Buttes Unit Effective 02/01/2012.

API	Well Name	QTR/QTR	orig entity Section	TWNSHP	RANGE	Producing Intervals
4304737079	FEDERAL 920-25I	NESE	15431	25 9S	20E	WASATCH/MESAVERDE
4304737080	FEDERAL 920-25H	SENE	15761	25 9S	20E	WASATCH/MESAVERDE
4304737081	FEDERAL 920-25A	NENE	15553	25 9S	20E	WASATCH/MESAVERDE from MVRD
4304739098	STATE 1021-28M	SWSW	16499	28 10S	21E	WASATCH To WSMVD
4304737918	FEDERAL 1021-26L	NWSW	16390	26 10S	21E	MESAVERDE To WSMVD
4304737919	FEDERAL 1021-26N	SESW	16391	26 10S	21E	WASATCH/MESAVERDE
4304737916	FEDERAL 1021-25O	SWSE	16277	25 10S	21E	WASATCH/MESAVERDE
4304739112	STATE 1021-31M	SWSW	16454	31 10S	21E	WASATCH To WSMVD
4304739127	STATE 1021-32P	SESE	16471	32 10S	21E	WASATCH/MESAVERDE
4304739128	STATE 1021-32O	SWSE	17513	32 10S	21E	WASATCH/MESAVERDE
4304739131	STATE 1021-32L	NWSW	16902	32 10S	21E	WASATCH/MESAVERDE
4304739133	STATE 1021-32J	NWSE	17529	32 10S	21E	WASATCH/MESAVERDE
4304739134	STATE 1021-32I	NESE	16905	32 10S	21E	WSMVD
4304739135	STATE 1021-32H	SENE	17528	32 10S	21E	WASATCH/MESAVERDE
4304735714	FEDERAL 1022-29H	SENE	15147	29 10S	22E	WASATCH/MESAVERDE
4304735715	FEDERAL 1022-29F	SENW	15162	29 10S	22E	WASATCH/MESAVERDE
4304735716	FEDERAL 1022-29B	NWNE	14982	29 10S	22E	WASATCH/MESAVERDE
4304735737	FEDERAL 1022-29I	NESE	15001	29 10S	22E	WASATCH/MESAVERDE
4304735738	FEDERAL 1022-29D	NWNW	15016	29 10S	22E	MESAVERDE To WSMVD
4304734862	FEDERAL 31-10-22	SESE	13879	31 10S	22E	MESAVERDE To WSMVD
4304735173	FEDERAL 1022-31D	NWNW	14132	31 10S	22E	WASATCH/MESAVERDE
4304736492	FEDERAL 1022-31N	SESW	16255	31 10S	22E	WASATCH/MESAVERDE
4304736493	FEDERAL 1022-31I	NESE	15089	31 10S	22E	WASATCH/MESAVERDE
4304736494	FEDERAL 1022-31G	SWNE	15075	31 10S	22E	WASATCH/MESAVERDE
4304736495	FEDERAL 1022-31F	SENE	15230	31 10S	22E	WASATCH/MESAVERDE
4304736574	FEDERAL 1022-31C	NENW	15090	31 10S	22E	WASATCH/MESAVERDE
4304736575	FEDERAL 1022-31J	NWSE	15214	31 10S	22E	WASATCH/MESAVERDE
4304736576	FEDERAL 1022-31L	NWSW	16276	31 10S	22E	WASATCH/MESAVERDE
4304734317	STATE 1-32	NESW	13419	32 10S	22E	WASATCH/MESAVERDE
4304734831	STATE 2-32	SESW	13842	32 10S	22E	MESAVERDE To WSMVD
4304734832	STATE 3-32	NWSW	13844	32 10S	22E	WASATCH/MESAVERDE
4304735095	STATE 1022-32J	NWSE	14097	32 10S	22E	WSMVD
4304735096	STATE 1022-32A	NENE	13914	32 10S	22E	WASATCH/MESAVERDE
4304735186	STATE 1022-32P	SESE	14131	32 10S	22E	MESAVERDE To WSMVD
4304735315	STATE 1022-32O	SWSE	14114	32 10S	22E	WASATCH/MESAVERDE
4304735647	STATE 1022-32H	SENE	14348	32 10S	22E	MESAVERDE To WSMVD
4304736413	STATE 1021-36O	SWSE	15619	36 10S	21E	WASATCH/MESAVERDE
*4304738157	WELL BELONGS TO QEP ENERGY CORP "GH 8-20-8-21" PERMIT NOT APPROVED					
4304734839	FEDERAL 1022-15F	SENW	14618	15 10S	22E	WASATCH/MESAVERDE
4304736414	STATE 1021-36J	NWSE	15651	36 10S	21E	WASATCH/MESAVERDE
4304738152	STATE 1021-36L	NWSW	16012	36 10S	21E	WASATCH/MESAVERDE
4304735440	FEDERAL 1022-15J	NWSE	14617	15 10S	22E	WASATCH/MESAVERDE
4304736415	STATE 1021-36I	NESE	15684	36 10S	21E	WASATCH/MESAVERDE
4304738845	STATE 1021-36D	NWNW	16455	36 10S	21E	WASATCH/MESAVERDE

4304750096	FEDERAL 1022-27H	SENE	17626	27	10S	22E	WASATCH/MESAVERDE
4304736416	STATE 1021-36H	SENE	15335	36	10S	21E	WASATCH/MESAVERDE
4304738846	STATE 1021-36E	SWNW	16523	36	10S	21E	WASATCH/MESAVERDE
4304735676	FEDERAL 1022-28L	NWSW	15110	28	10S	22E	WASATCH/MESAVERDE
4304736417	STATE 1021-36G	SWNE	15297	36	10S	21E	WASATCH/MESAVERDE
4304738847	STATE 1021-36F	SENW	16394	36	10S	21E	WASATCH/MESAVERDE
4304735713	FEDERAL 1022-28N	SESW	15145	28	10S	22E	WASATCH/MESAVERDE
4304736418	STATE 1021-36B	NWNE	14953	36	10S	21E	WASATCH/MESAVERDE
4304738848	STATE 1021-36N	SESW	16359	36	10S	21E	WASATCH/MESAVERDE
4304735735	FEDERAL 1022-28O	SWSE	15285	28	10S	22E	WASATCH/MESAVERDE from MVRD
4304736419	STATE 1021-36A	NENE	15035	36	10S	21E	WASATCH/MESAVERDE
4304738849	STATE 1021-36K	NESW	16084	36	10S	21E	WASATCH/MESAVERDE
4304735736	FEDERAL 1022-28M	SWSW	15286	28	10S	22E	WASATCH/MESAVERDE
4304736420	STATE 1021-36P	SESE	15372	36	10S	21E	WASATCH/MESAVERDE
4304738850	STATE 1021-36C	NENW	16396	36	10S	21E	WASATCH/MESAVERDE
4304734861	FEDERAL 29-10-22	SESE	14006	29	10S	22E	MESAVERDE To WSMVD
4304735577	FEDERAL 1022-33O	SWSE	15080	33	10S	22E	WASATCH/MESAVERDE
4304735739	FEDERAL 1022-33E	SWNW	15193	33	10S	22E	WASATCH/MESAVERDE
4304735740	FEDERAL 1022-33M	SWSW	15373	33	10S	22E	WASATCH/MESAVERDE
4304735741	FEDERAL 1022-33L	NWSW	15511	33	10S	22E	WASATCH/MESAVERDE
4304735742	FEDERAL 1022-33G	SWNE	15404	33	10S	22E	WASATCH/MESAVERDE from MVRD
4304735743	FEDERAL 1022-33C	NENW	15405	33	10S	22E	WASATCH/MESAVERDE
4304735744	FEDERAL 1022-33A	NENE	15539	33	10S	22E	WASATCH/MESAVERDE
4304737105	FEDERAL 1022-33D	NWNW	16502	33	10S	22E	WASATCH/MESAVERDE
4304737106	FEDERAL 1022-33F	SENW	16560	33	10S	22E	WASATCH/MESAVERDE from WSTC
4304737107	FEDERAL 1022-33K	NESW	16124	33	10S	22E	WASATCH/MESAVERDE
4304737109	FEDERAL 1022-33N	SESW	16126	33	10S	22E	WASATCH/MESAVERDE
4304737110	FEDERAL 1022-33B	NWNE	16561	33	10S	22E	WASATCH/MESAVERDE
4304735810	STATE 1021-36E	SWNW	14295	36	10S	21E	WASATCH/MESAVERDE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
ML-21577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
STATE 1021-32O

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047391280000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1008 FSL 2066 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 32 Township: 10.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☑ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 10/14/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator has concluded the wellhead/casing repairs on the subject well location. Please see the attached chronological history for details of the operations.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 18, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		7/17/2012

RECEIVED: Jul. 17, 2012

US ROCKIES REGION

Operation Summary Report

Well: STATE 1021-32O	Spud Conductor: 2/21/2010	Spud Date: 2/22/2010	
Project: UTAH-UINTAH	Site: STATE 1021-32O		Rig Name No: SWABBCO 8/8
Event: WELL WORK EXPENSE	Start Date: 10/12/2011		End Date: 10/14/2011
Active Datum: RKB @5,340.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/21/E/32/0/0/6/PM/S/1,008.00/E/0/2,066.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/12/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= WELL CONTROL
	7:15 - 17:00	9.75	WO/REP	30		P		FWP= 100 PSI MIRU CONT TUB W/ 20 BBLS TMAC ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP CONT CSG W/ 20 BBLS TMAC UNLAND TUBING POOH W/ 239 JNTS LD 25 W/ EXT SCALE LD BHA RU W/L RIH W/ GUAGE RNG TO 5750' PU 10K CIBP RIH SET @ 5690' DUMP BAIL 2 SKS CEM FILL HOLE W/ TMAC PRESS TEST PLG TO 500 PSI SIW PREP TO REPAIR W/H IN AM
10/13/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= FISHING TOOL SAFETY
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0 PSI ND BOPS & WELLHEAD PU INT CUTTER & SWVL CUT CSG BELOW HNGR PU OVERSHOT RIH OVER CSG STRING RU CSG TONGS & W/L APPLY LH TORQUE SET OFF STRING SHOT B/O PUP POOH PU 10' PUP RIH TORQUE TO 7000# W/ 13 RNDS NU & TEST TO 3500# PU 3-7/8" MILL RIH TAG TOC @ 5675' RU PWR SWVL & DRILL HEAD SIW SDFN
10/14/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= N2 FOAMING
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0PSI EST CIRC W/ N2 FOAM UNIT DRILL THRU CEM & CIBP @ 5690' CIRC CLEAN CONTINUE TO RIH TAG FILL @ 8731' (136' BELOW BTM PERF POOH LD 38 JNTS LAND TUBING ON HNGR W/ 239 JNTS EOT @ 7555.97' PMP 20 BBLS TO CONTROL TUB, BIT PLUGGED UNLAND TUB POOH W/ WET TUB LD BHA PU NOTCHED 1.87XN RIH LAND TUB ON HNGR PU RIH W/ BROACH TO XN NPLRD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD SIW SDFN

RECEIVED: Jul. 17, 2012